

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032772.D
 Acq On : 14 Nov 2018 23:40
 Operator : SY/AP
 Sample : VL1114ABS04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:15 PM

Quant Time: Nov 15 07:23:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:23:01 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1595579	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4048602	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4100684	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2880182	9.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1968547	8.583	ppbv	99
3) Chlorodifluoromethane	3.02	51	1150025	9.091	ppbv	98
4) Chloromethane	3.17	50	639945	9.123	ppbv	97
5) Vinyl Chloride	3.30	62	652632	8.781	ppbv	99
6) Bromomethane	3.52	94	419131	9.218	ppbv	96
7) Chloroethane	3.61	64	247211	9.228	ppbv	100
8) Dichlorotetrafluoroethane	3.23	85	1555777	8.608	ppbv	98
9) Propene	3.04	41	506761	10.011	ppbv	100
10) Heptane	8.26	43	1963937	10.162	ppbv	99
11) Trichlorofluoromethane	4.01	101	2580700	11.940	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1491447	8.448	ppbv	99
13) Ethanol	3.65	45	119018	7.178	ppbv	98
14) Bromoethene	3.80	108	541905	9.252	ppbv	100
15) Acetone	3.91	43	1126649	7.732	ppbv	99
16) 1,3-Butadiene	3.37	39	558106	9.890	ppbv	95
17) tert-Butyl alcohol	4.36	59	476991	10.437	ppbv	100
18) 1,1-Dichloroethene	4.36	96	822439	9.473	ppbv	95
19) Isopropyl Alcohol	4.03	45	1270749	13.091	ppbv	99
20) Methylene Chloride	4.42	84	660691	8.758	ppbv	97
21) Allyl Chloride	4.48	41	1322736	10.802	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	765794	9.033	ppbv	99
23) Vinyl Acetate	5.16	43	2680851	10.093	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1960784	9.285	ppbv	99
25) Ethyl Acetate	5.78	43	3213357	9.462	ppbv	99
26) Hexane	5.79	57	1472916	9.743	ppbv	99
27) Carbon Disulfide	4.62	76	1975496	10.305	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2445810	10.145	ppbv	99
29) Chloroform	5.86	83	2427706	9.010	ppbv	96
30) Cyclohexane	7.26	84	1339390	10.130	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1517625	9.985	ppbv	100
32) 1,1,1-Trichloroethane	6.63	97	2592218	8.777	ppbv	99
34) 2-Butanone	5.34	43	2065411	9.836	ppbv	99
35) Carbon Tetrachloride	7.14	117	2776926	8.532	ppbv	99
36) Benzene	7.01	78	3235837	10.037	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1973475	9.093	ppbv	99
38) Trichloroethene	7.97	130	1247845	9.564	ppbv	96
39) 1,2-Dichloropropane	7.75	63	1206499	9.822	ppbv	97
40) 1,4-Dioxane	7.96	88	455502	10.382	ppbv	84
41) Tetrahydrofuran	6.16	42	1264048	10.494	ppbv	100
42) Bromodichloromethane	7.92	83	2768603	9.411	ppbv	99
43) Methyl Methacrylate	8.15	69	1304020	10.834	ppbv	99

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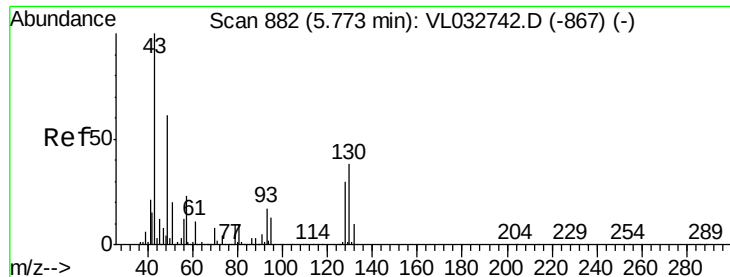
Manual Integrations
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Quant Time: Nov 15 07:23:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:23:01 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5343996	9.919	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1838960	11.386	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	2110482	10.816	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1380779	9.506	ppbv	99
48) Dibromochloromethane	10.46	129	2313497	9.371	ppbv	100
49) Bromoform	13.21	173	1826993	8.961	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3279092	9.998	ppbv	99
51) 2-Hexanone	10.28	43	2321502	10.987	ppbv	100
52) Tetrachloroethene	11.38	164	1104295	9.847	ppbv	98
53) Toluene	9.95	91	3663244	10.892	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1993508	9.709	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1613519	8.436	ppbv	99
57) Chlorobenzene	12.31	112	2687173	8.560	ppbv	99
58) Ethyl Benzene	12.87	91	4818690	9.764	ppbv	100
59) m/p-Xylene	13.16	91	7863481m	17.899	ppbv	
60) o-Xylene	13.86	91	3854288	8.725	ppbv	99
61) Styrene	13.69	104	2913468	10.132	ppbv	99
62) Isopropylbenzene	14.83	105	5374777	9.002	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2573254	7.473	ppbv	100
64) n-propylbenzene	15.73	120	1361352	8.668	ppbv	99
65) tert-Butylbenzene	16.92	119	4633343	8.657	ppbv	100
66) Benzyl Chloride	17.16	91	2647642	8.947	ppbv	100
67) sec-Butylbenzene	17.47	105	6588153	8.541	ppbv	99
69) p-Isopropyltoluene	17.82	119	5444329	8.877	ppbv	99
70) n-Butylbenzene	18.72	91	5603105	8.997	ppbv	100
71) 2-Chlorotoluene	15.62	91	4030990	9.053	ppbv	100
72) 4-Ethyltoluene	16.01	105	4369482	9.024	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4129869	8.724	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	4197893	8.287	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2350978	8.091	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2332641	8.594	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2300307	8.557	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1290496	8.895	ppbv	98
79) Naphthalene	22.42	128	4158197	12.495	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1035976	12.429	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1976955	11.830	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032772.D

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Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 49 Resp: 1595579

Ion Ratio Lower Upper

49 100

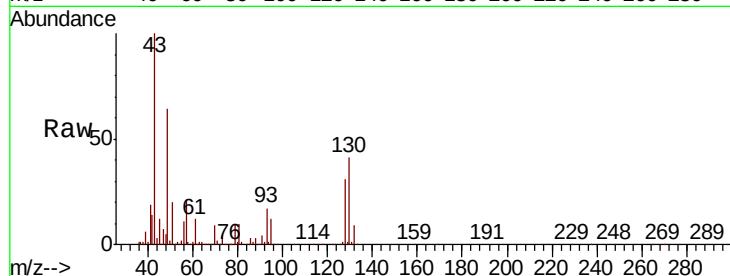
128 48.8 24.9 74.6

130 63.6 31.4 94.2

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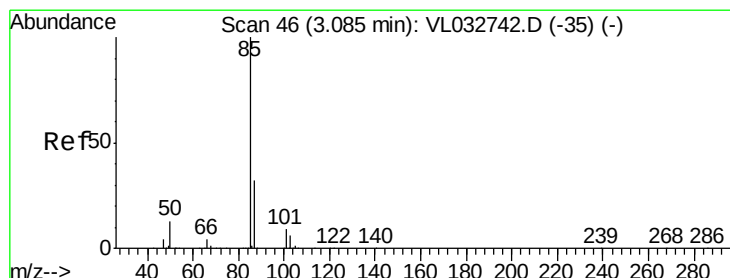
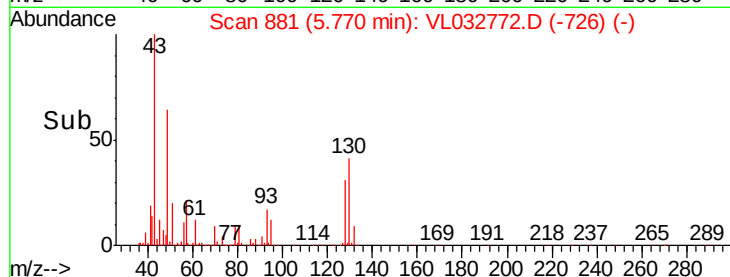
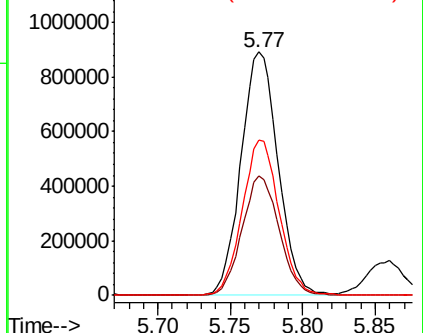
11/16/2018 1:30:15 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.583 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032772.D

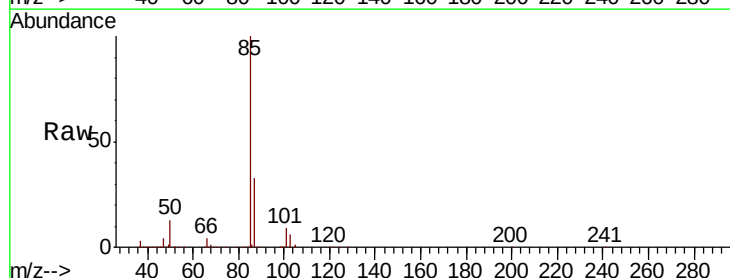
Acq: 14 Nov 2018 23:40

Tgt Ion: 85 Resp: 1968547

Ion Ratio Lower Upper

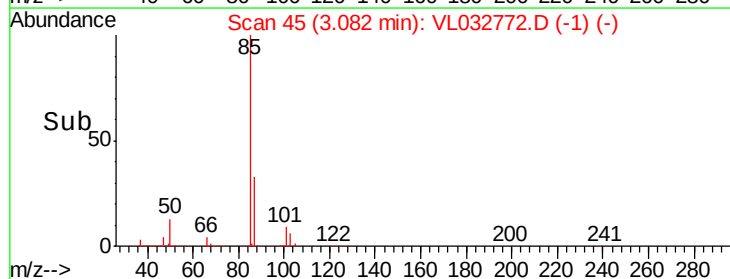
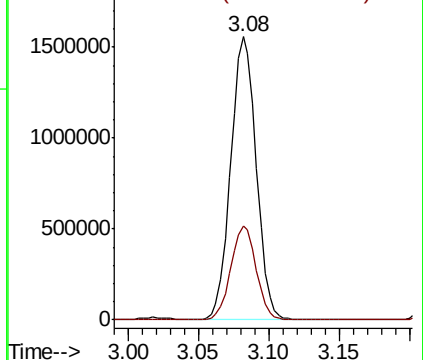
85 100

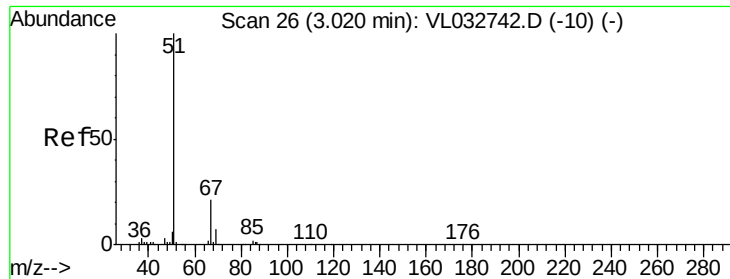
87 33.1 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





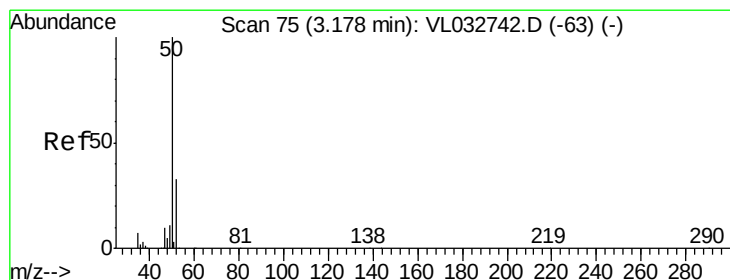
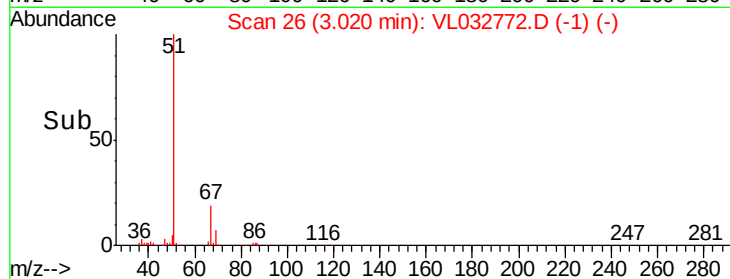
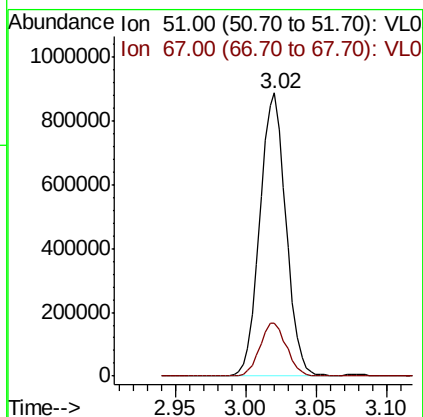
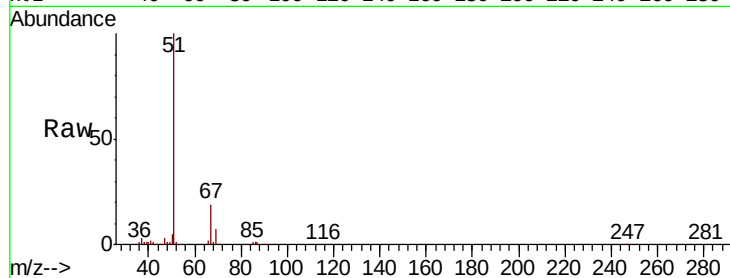
#3
Chlorodifluoromethane
Concen: 9.091 ppbv
RT: 3.02 min Scan# 26
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion: 51 Resp: 1150025
Ion Ratio Lower Upper
51 100
67 19.2 16.1 24.1

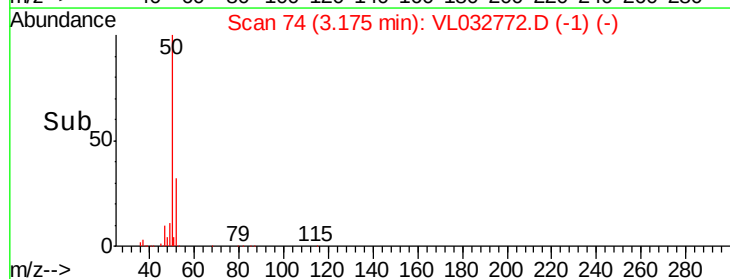
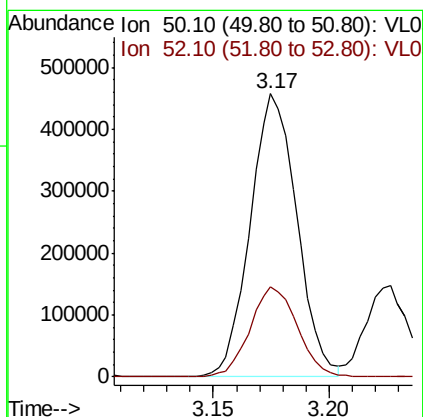
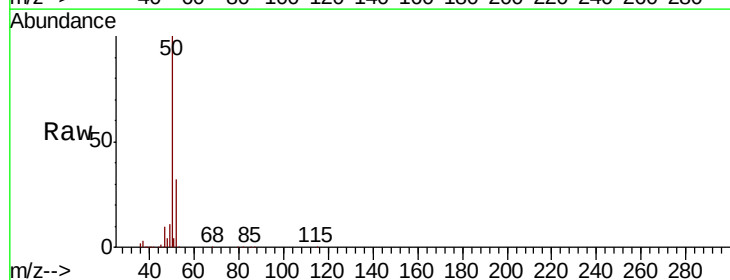
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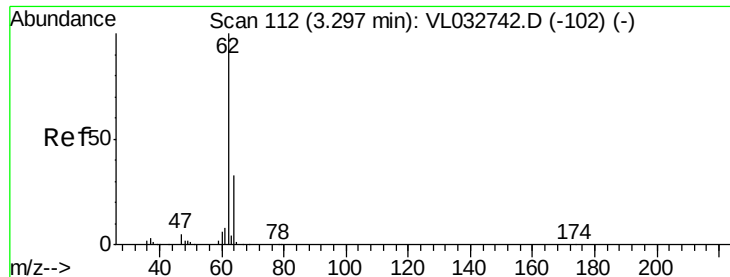
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#4
Chloromethane
Concen: 9.123 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 50 Resp: 639945
Ion Ratio Lower Upper
50 100
52 31.7 26.6 40.0





#5

Vinyl Chloride

Concen: 8.781 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleID :

VL1114ABS04

Tot Ion: 62 Resp: 652632

Ion Ratio Lower Upper

62 100

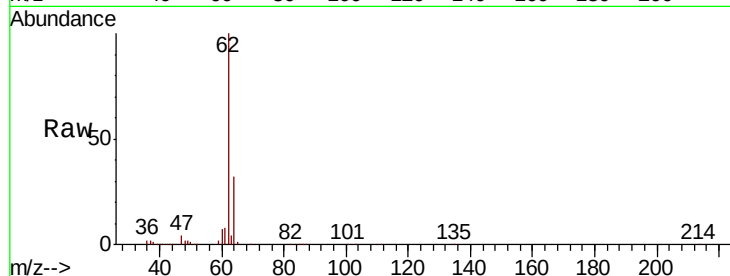
64 32.4 26.2 39.4

Manual Integrations

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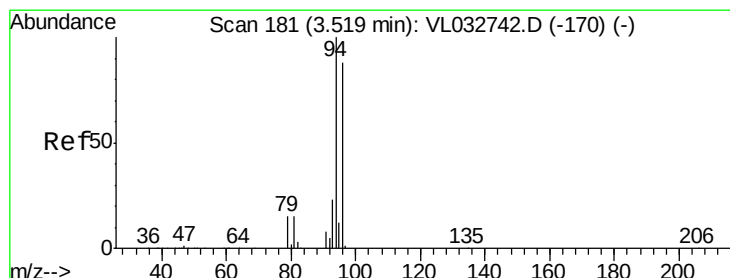
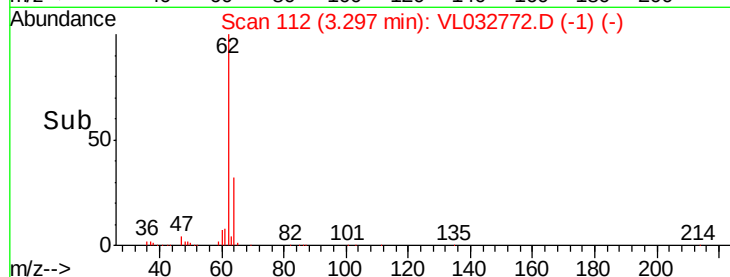
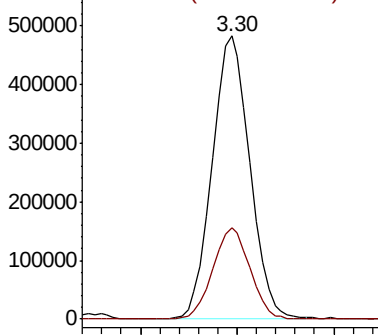
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.218 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032772.D

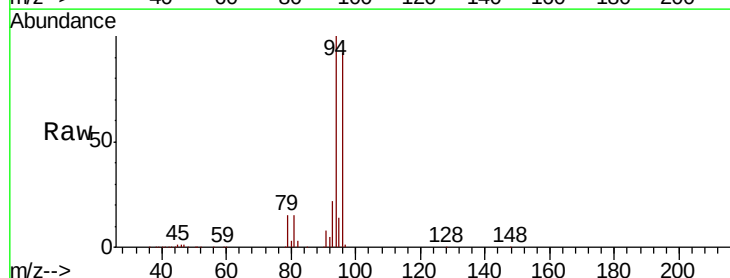
Acq: 14 Nov 2018 23:40

Tgt Ion: 94 Resp: 419131

Ion Ratio Lower Upper

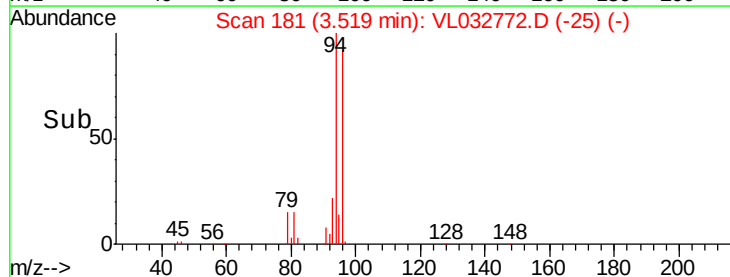
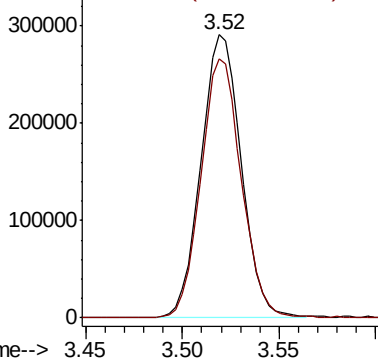
94 100

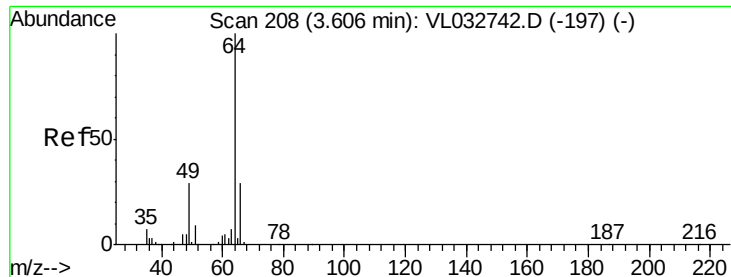
96 91.7 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.228 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 64 Resp: 247211

Ion Ratio Lower Upper

64 100

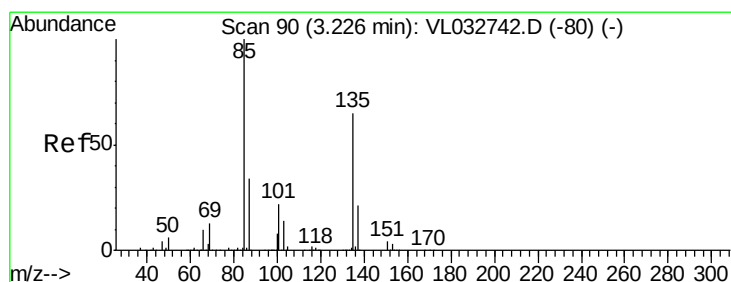
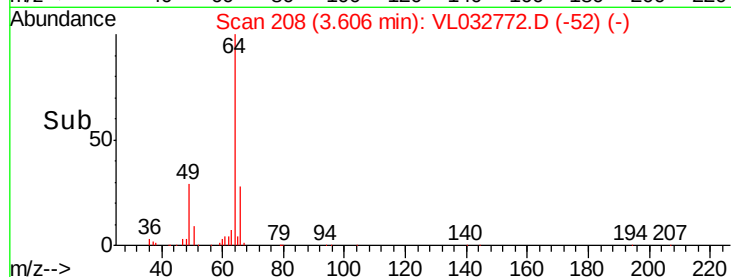
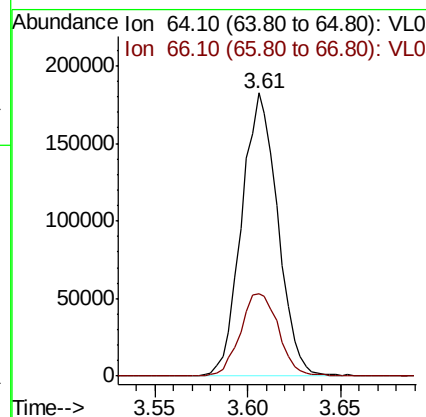
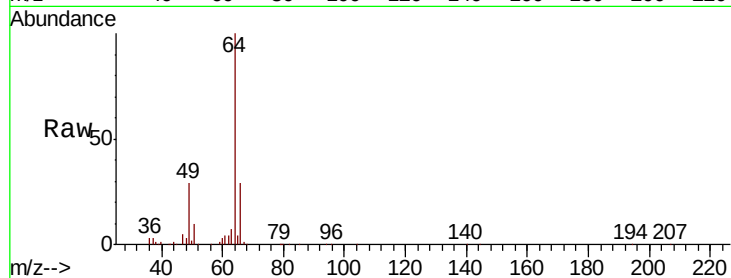
66 29.2 23.2 34.8

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#8

Dichlorotetrafluoroethane

Concen: 8.608 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL032772.D

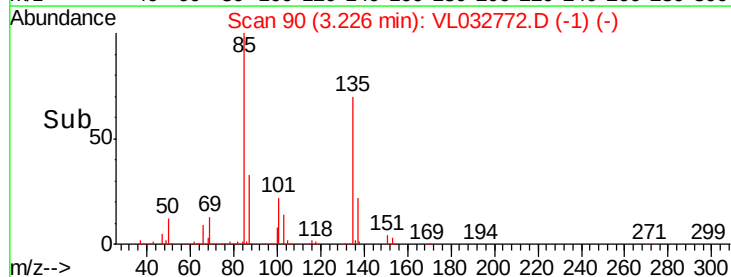
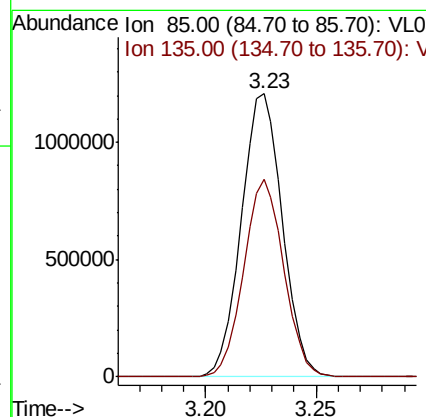
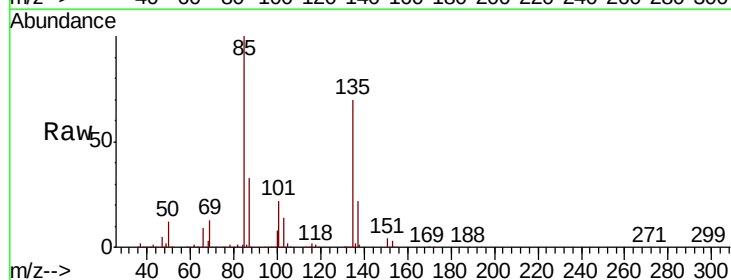
Acq: 14 Nov 2018 23:40

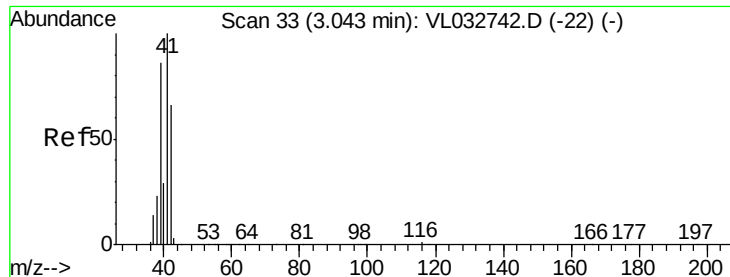
Tgt Ion: 85 Resp: 1555777

Ion Ratio Lower Upper

85 100

135 68.6 53.8 80.8





#9

Propene

Concen: 10.011 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 41 Resp: 506761

Ion Ratio Lower Upper

41 100

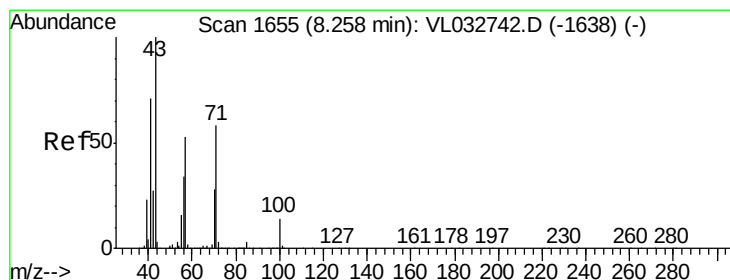
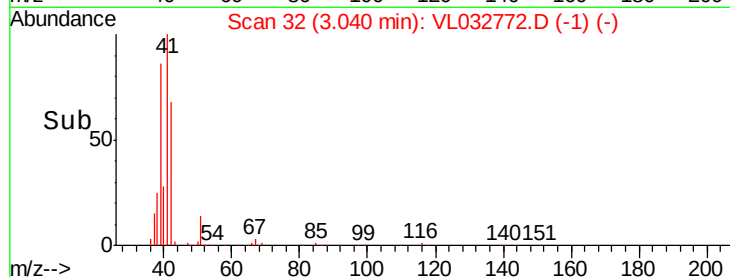
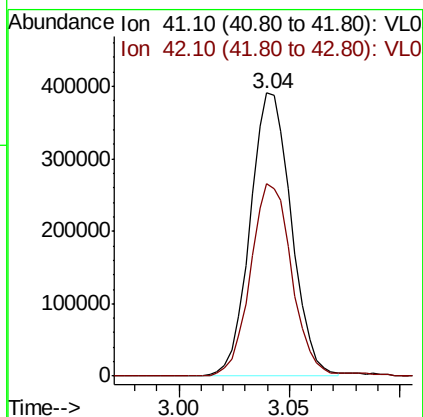
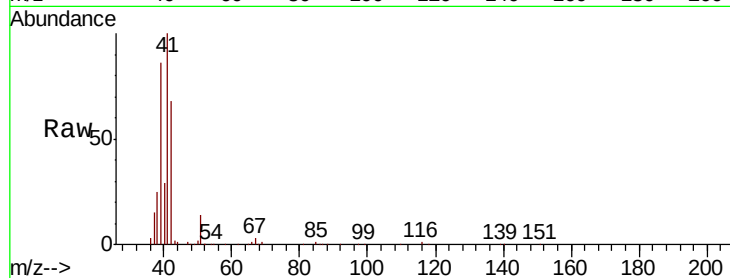
42 69.1 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 10.162 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032772.D

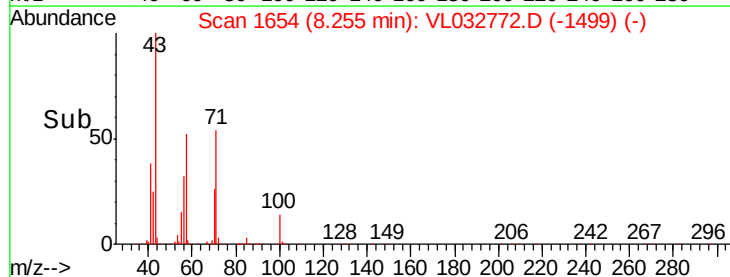
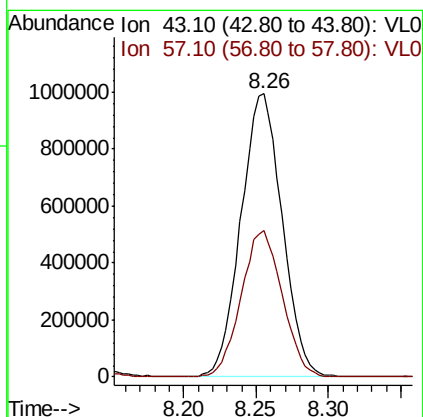
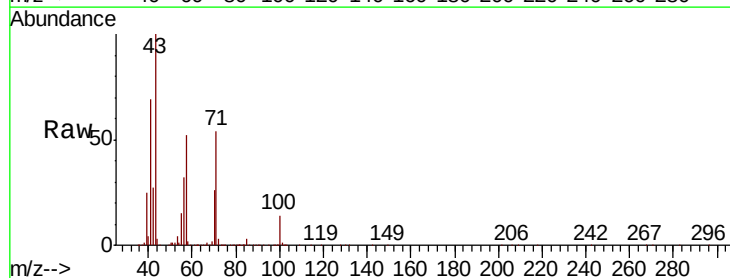
Acq: 14 Nov 2018 23:40

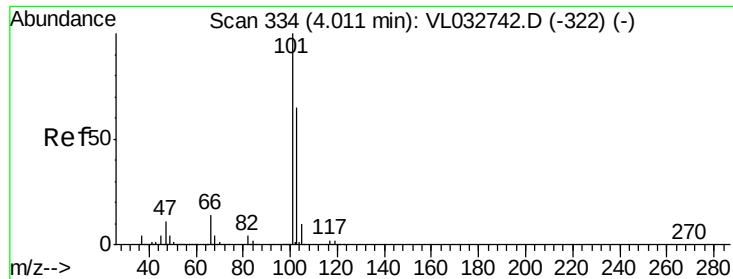
Tgt Ion: 43 Resp: 1963937

Ion Ratio Lower Upper

43 100

57 51.7 41.8 62.8





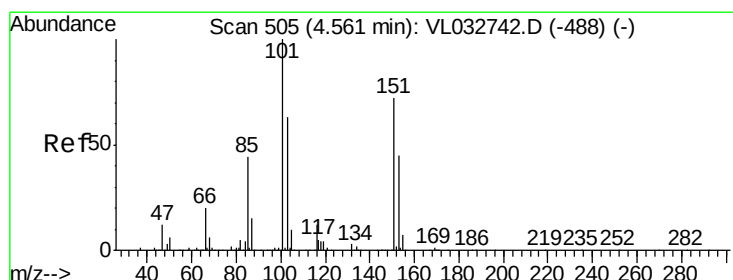
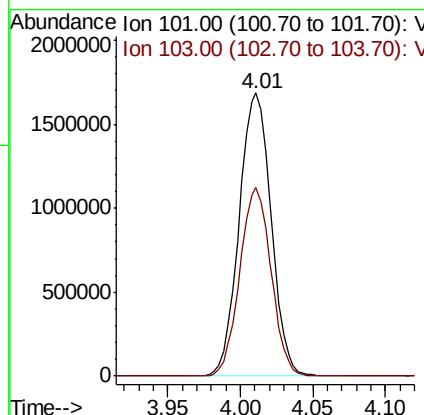
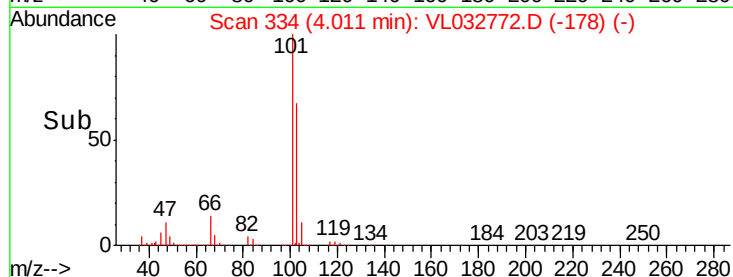
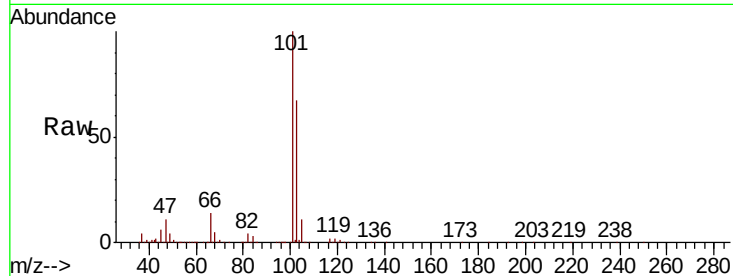
#11
 Trichlorofluoromethane
 Concen: 11.940 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion:101 Resp: 2580700
 Ion Ratio Lower Upper
 101 100
 103 66.8 51.6 77.4

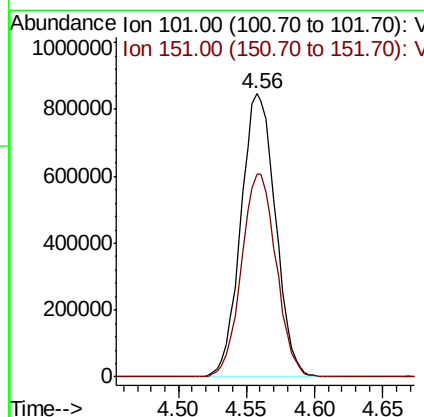
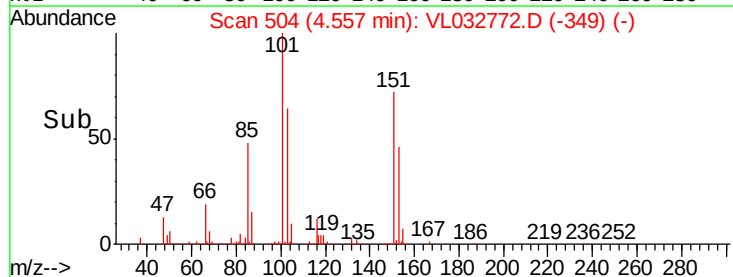
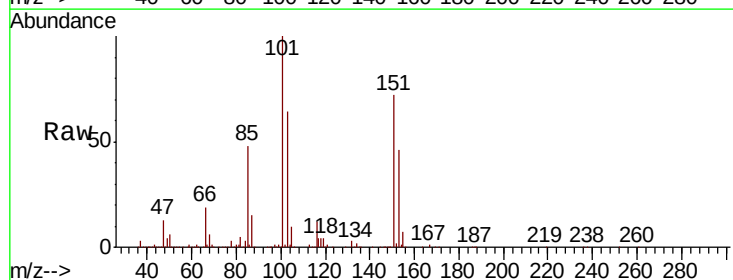
Manual Integrations
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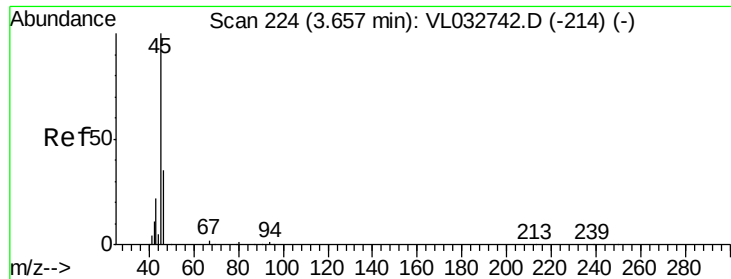
MMDadoda
 11/16/2018 1:30:15 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.448 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion:101 Resp: 1491447
 Ion Ratio Lower Upper
 101 100
 151 71.9 56.7 85.1





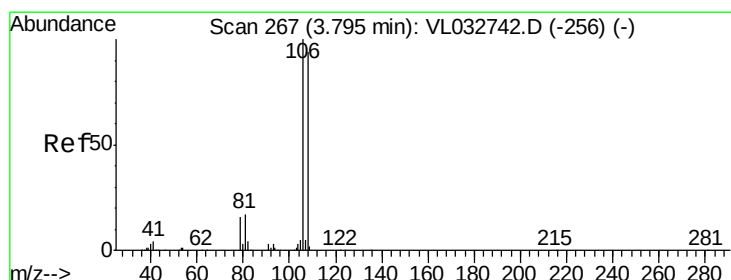
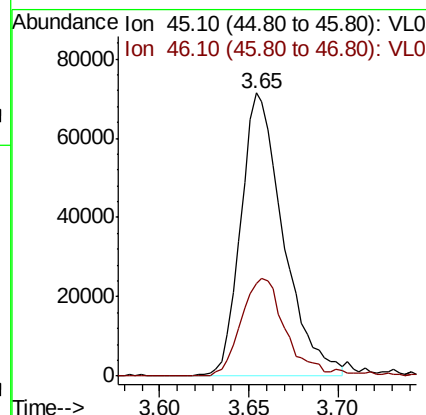
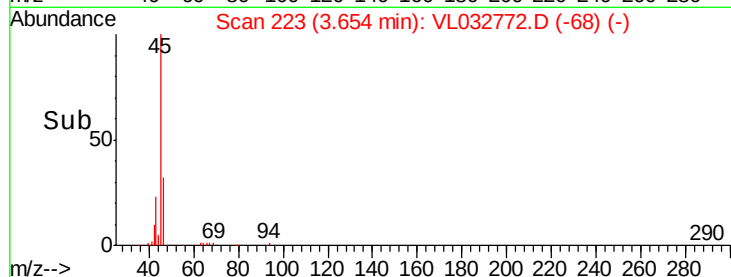
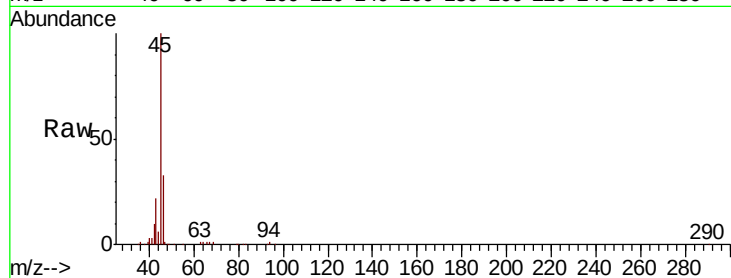
#13
Ethanol
Concen: 7.178 ppbv
RT: 3.65 min Scan# 223
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.4	14.5	57.9

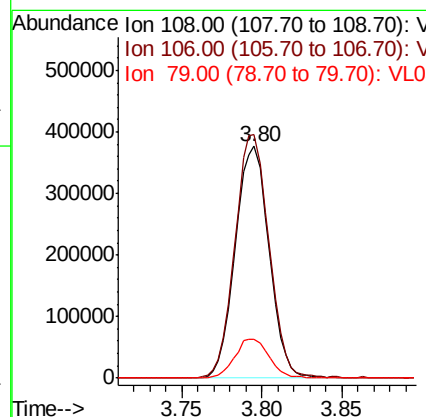
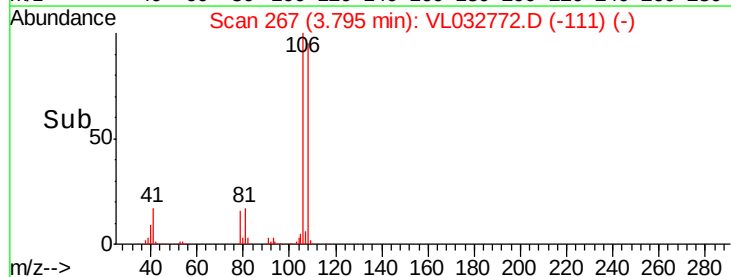
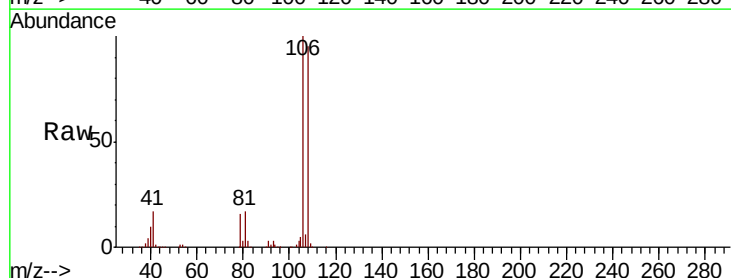
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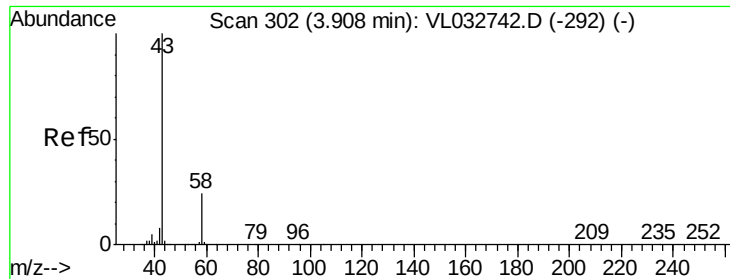
MMDadoda
11/16/2018 1:30:15 PM



#14
Bromoethene
Concen: 9.252 ppbv
RT: 3.80 min Scan# 267
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.0	84.9	127.3
79	17.3	14.2	21.4





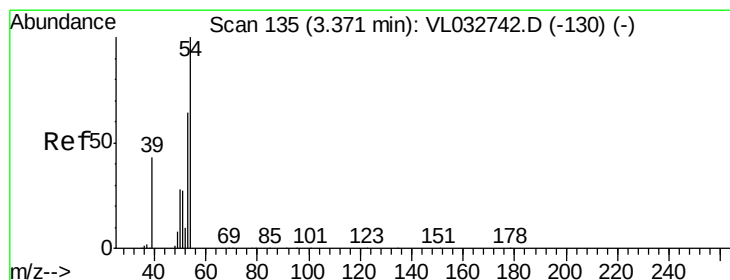
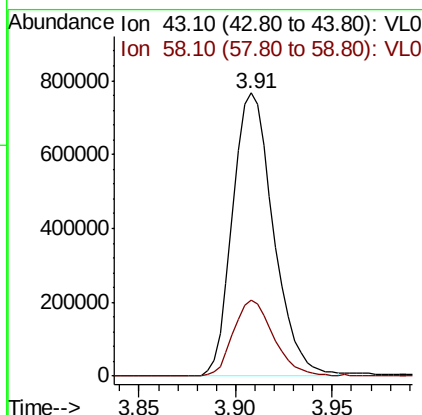
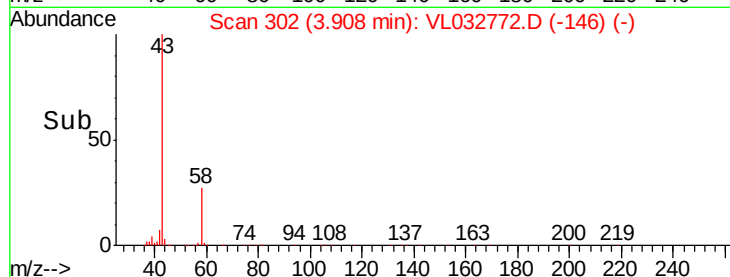
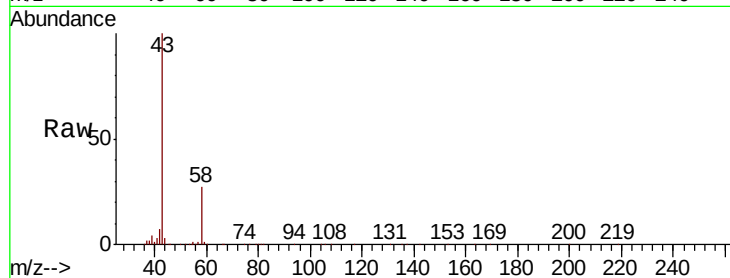
#15
Acetone
Concen: 7.732 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion: 43 Resp: 1126649
Ion Ratio Lower Upper
43 100
58 26.8 21.1 31.7

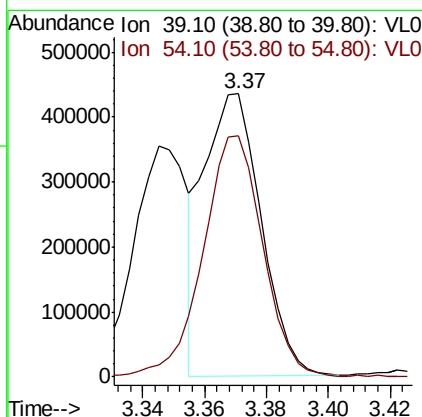
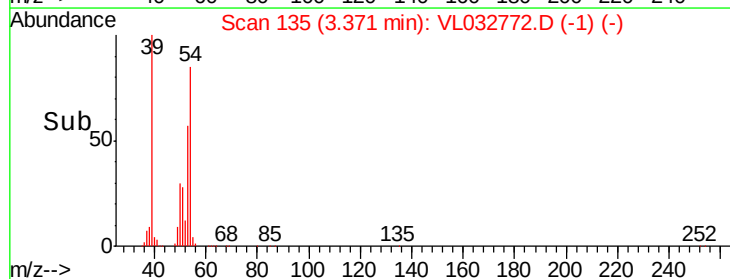
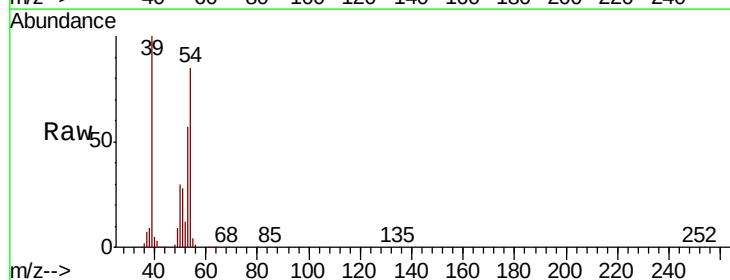
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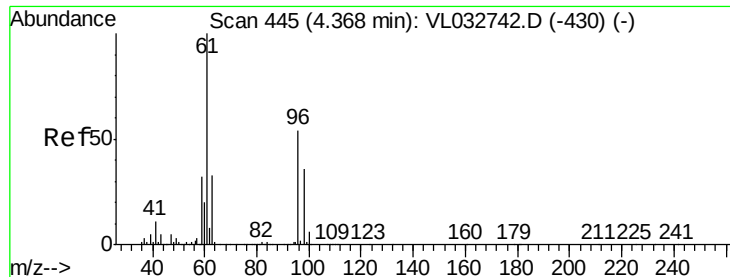
MMDadoda
11/16/2018 1:30:15 PM



#16
1,3-Butadiene
Concen: 9.890 ppbv
RT: 3.37 min Scan# 135
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 39 Resp: 558106
Ion Ratio Lower Upper
39 100
54 90.5 68.9 103.3





#17

tert-Butyl alcohol

Concen: 10.437 ppbv

RT: 4.36 min Scan# 444

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleID :

VL1114ABS04

Tot Ion: 59 Resp: 476991

Ion Ratio Lower Upper

59 100

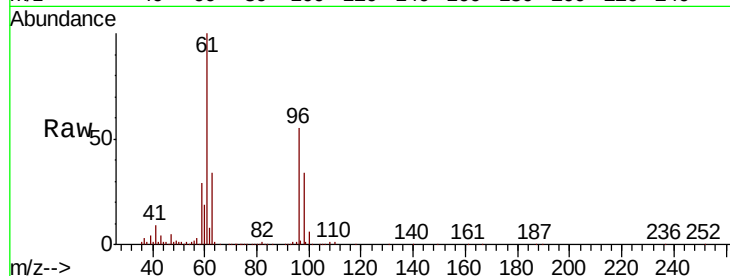
57 9.9 7.8 11.8

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

250000

200000

150000

100000

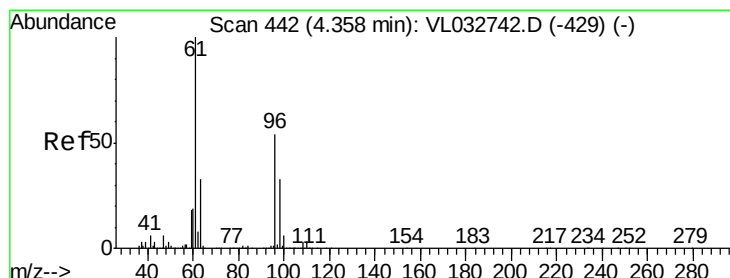
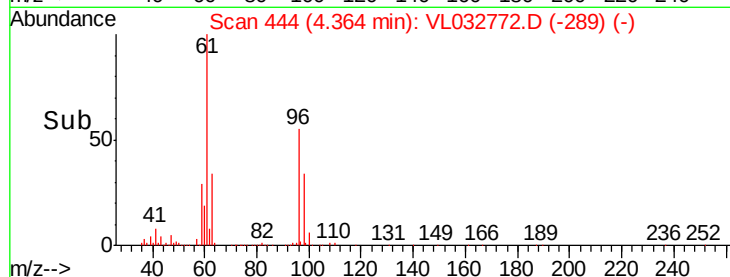
50000

0

Time-->

4.30 4.35 4.40 4.45

4.36



#18

1,1-Dichloroethene

Concen: 9.473 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

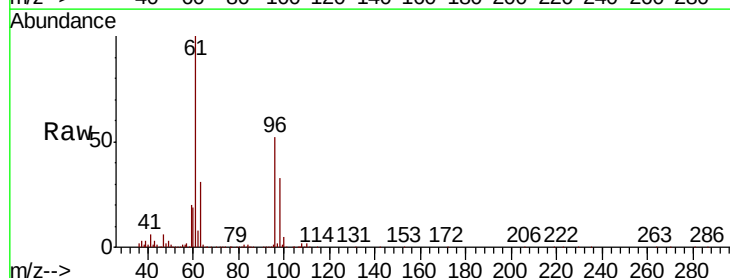
Tgt Ion: 96 Resp: 822439

Ion Ratio Lower Upper

96 100

61 193.6 148.5 222.7

98 64.6 48.6 72.8



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

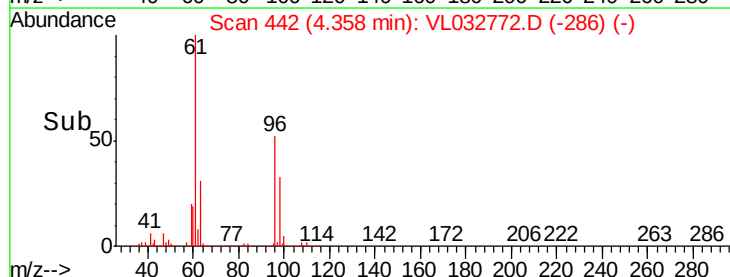
500000

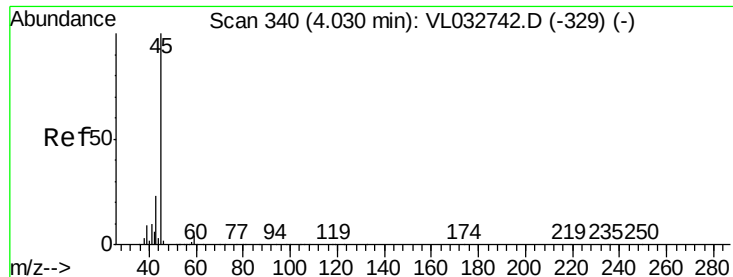
0

Time-->

4.30 4.35 4.40

4.36





#19

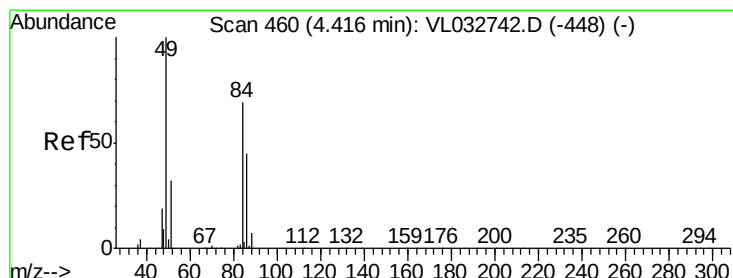
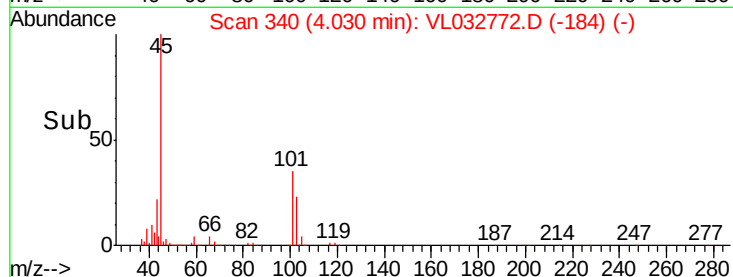
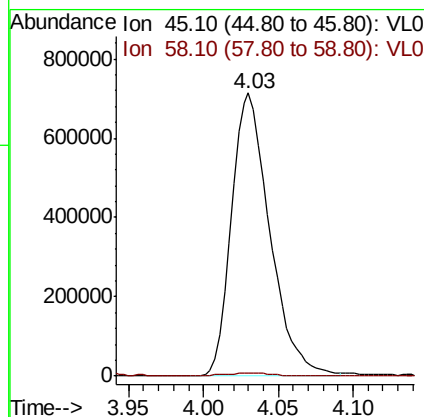
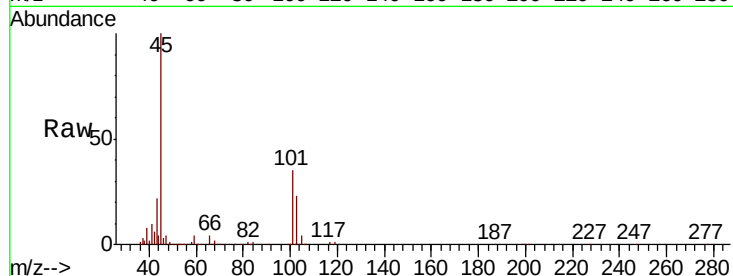
Isopropyl Alcohol
 Concen: 13.091 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. 0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion: 45 Resp: 1270749
 Ion Ratio Lower Upper
 45 100
 58 1.4 1.4 2.0

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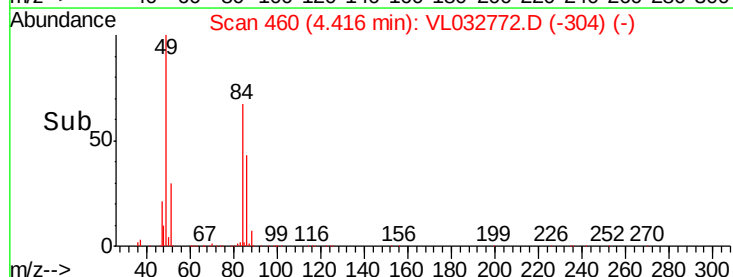
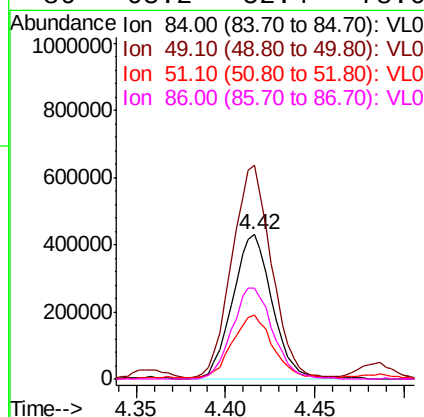
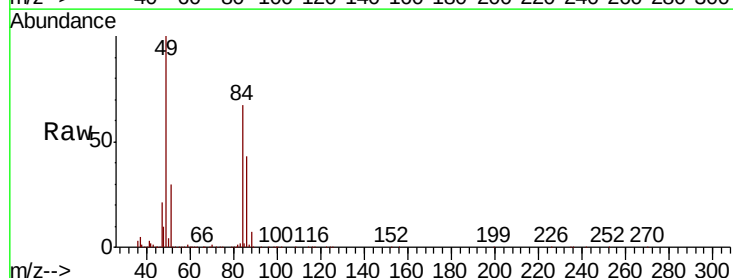
MMDadoda
 11/16/2018 1:30:15 PM

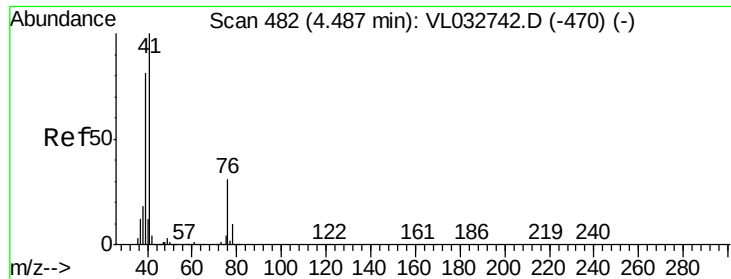


#20

Methylene Chloride
 Concen: 8.758 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion: 84 Resp: 660691
 Ion Ratio Lower Upper
 84 100
 49 147.4 115.8 173.6
 51 43.7 36.9 55.3
 86 63.2 52.4 78.6





#21

Allvl Chloride

Concen: 10.802 ppbv

RT: 4.48 min Scan# 481

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

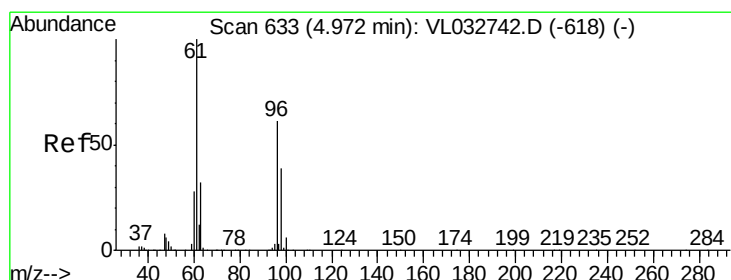
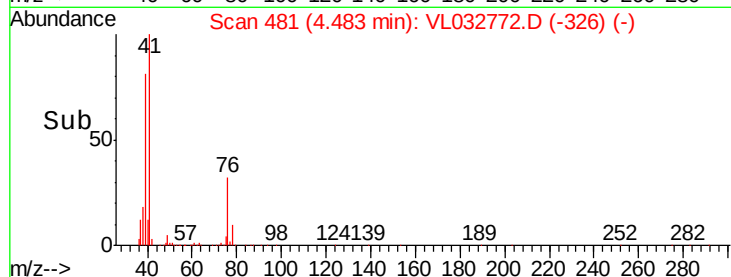
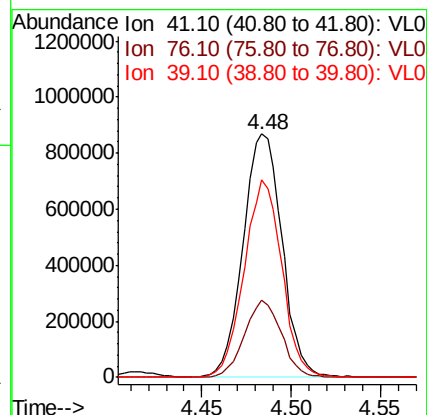
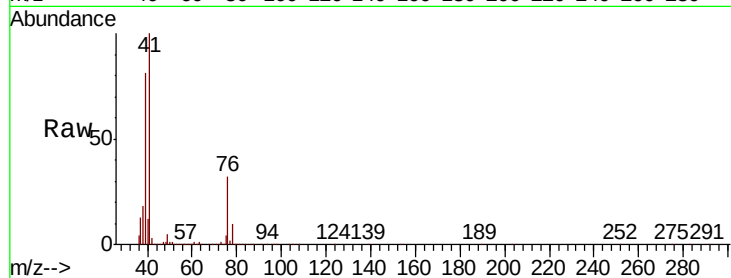
ClientSampleId :

VL1114ABS04

Tot Ion:	41	Resp:	1322736
Ion	Ratio	Lower	Upper
41	100		
76	30.2	24.4	36.6
39	78.6	63.5	95.3

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#22

trans-1,2-Dichloroethene

Concen: 9.033 ppbv

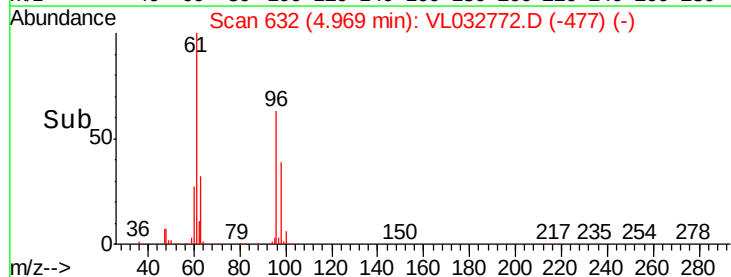
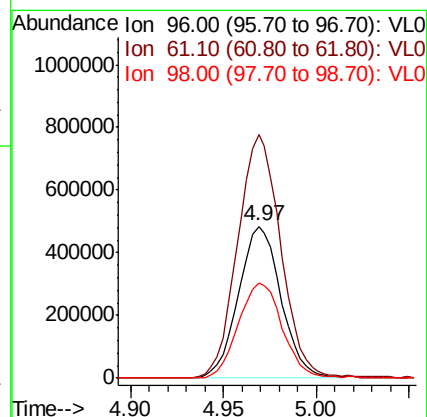
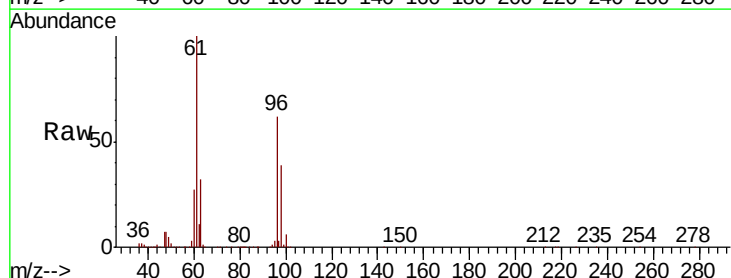
RT: 4.97 min Scan# 632

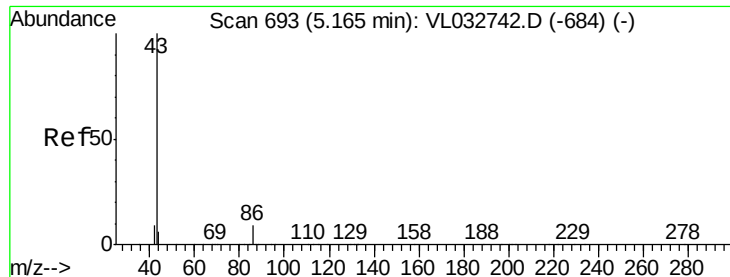
Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Tgt Ion:	96	Resp:	765794
Ion	Ratio	Lower	Upper
96	100		
61	160.5	130.2	195.2
98	62.5	50.2	75.2





#23

Vinyl Acetate

Concen: 10.093 ppbv

RT: 5.16 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleID :

VL1114ABS04

Tot Ion: 43 Resp: 2680851

Ion Ratio Lower Upper

43 100

86 8.1 6.2 9.4

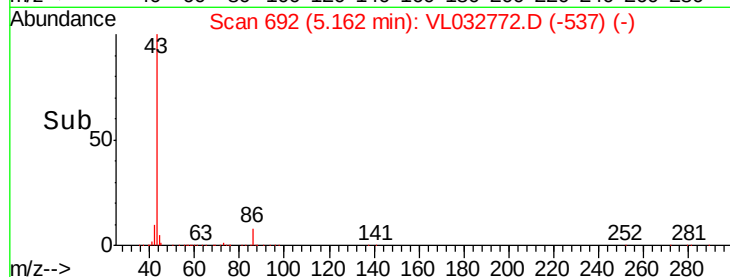
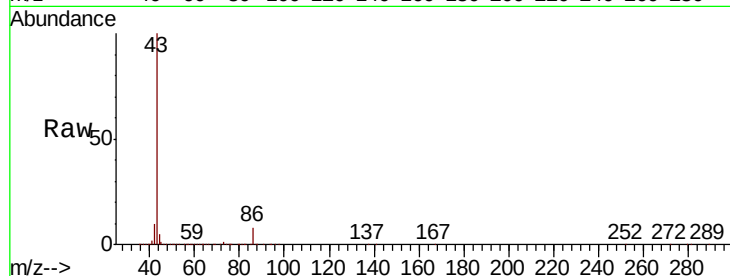
42 9.7 7.8 11.6

44 5.1 4.4 6.6

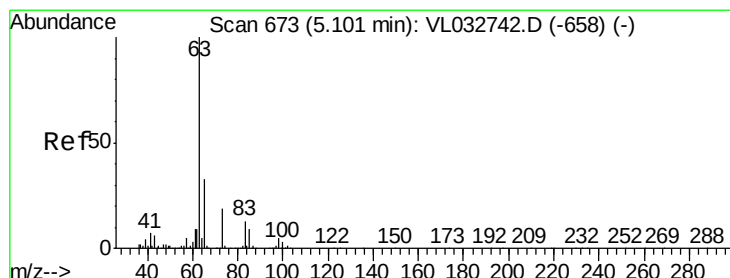
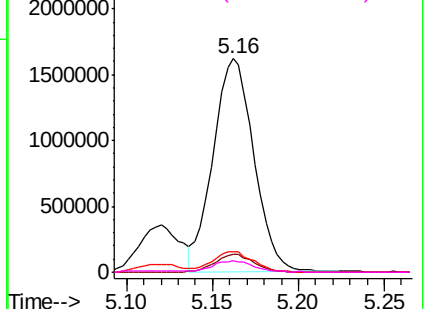
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Abundance Ion 43.10 (42.80 to 43.80): VL0
2500000
Ion 86.10 (85.80 to 86.80): VL0
2000000
Ion 42.10 (41.80 to 42.80): VL0
1500000
Ion 44.10 (43.80 to 44.80): VL0
1000000
500000
0



#24

1,1-Dichloroethane

Concen: 9.285 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

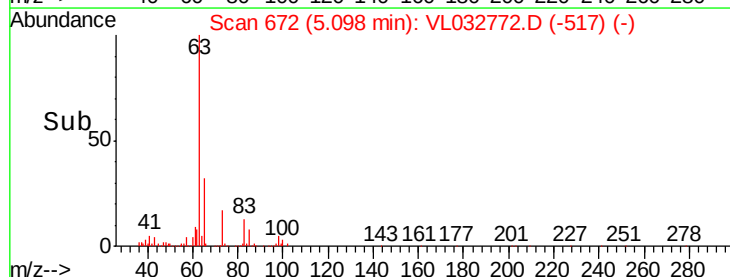
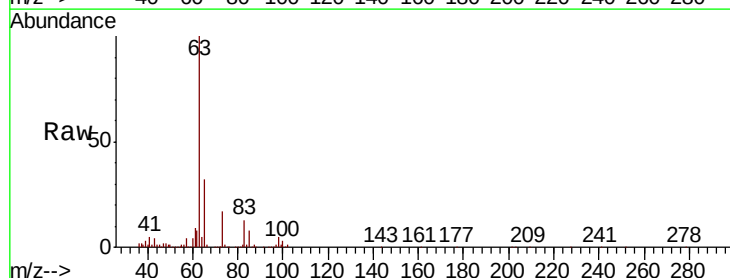
Tgt Ion: 63 Resp: 1960784

Ion Ratio Lower Upper

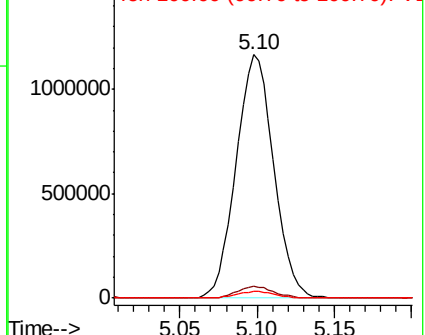
63 100

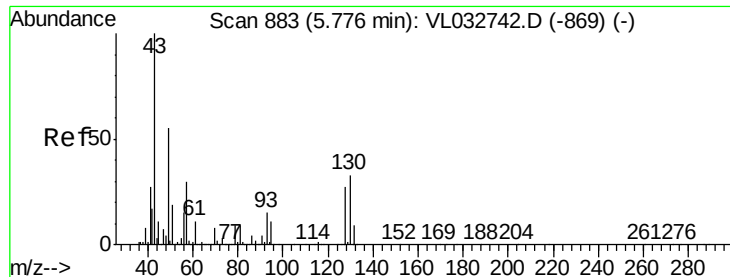
98 4.9 2.3 6.8

100 3.0 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
1500000
Ion 98.00 (97.70 to 98.70): VL0
1000000
Ion 100.00 (99.70 to 100.70): VL0
500000
0





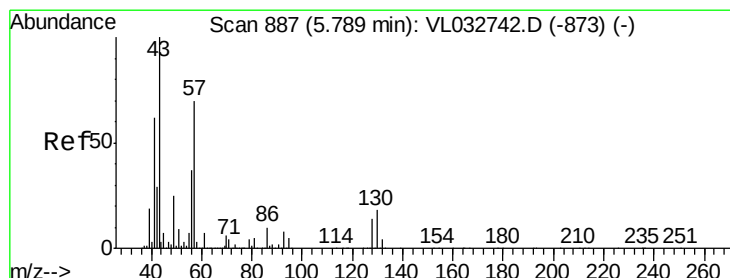
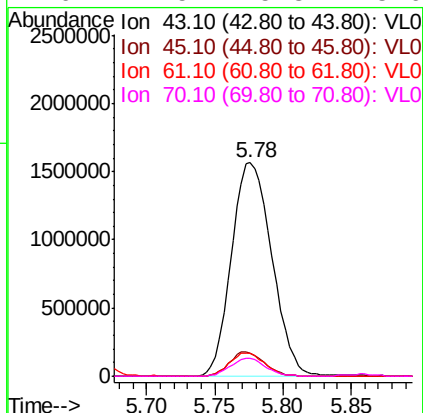
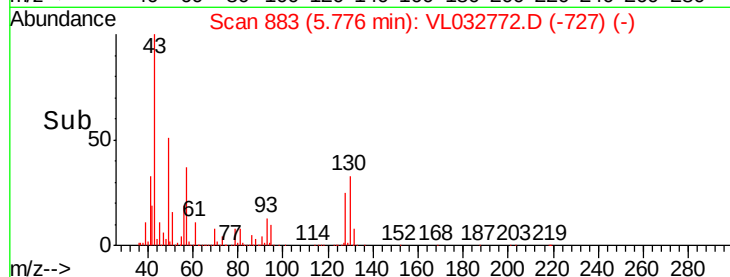
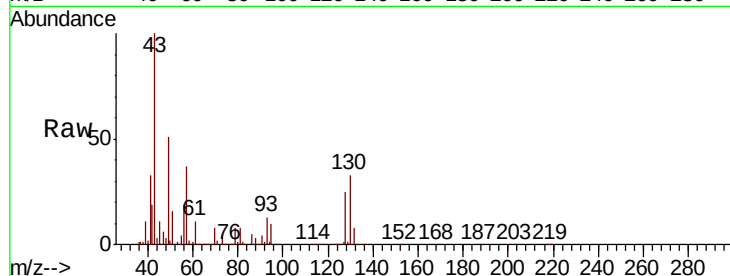
#25
Ethyl Acetate
Concen: 9.462 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion	43	Resp	3213357
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.4	7.8	11.6
70	7.5	5.8	8.6

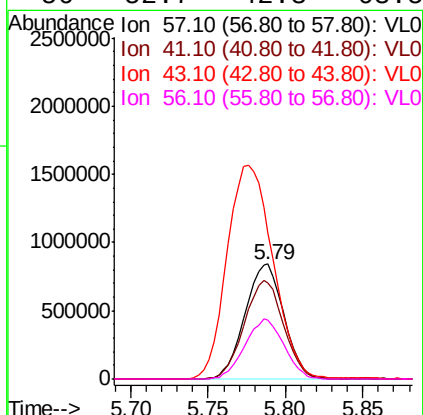
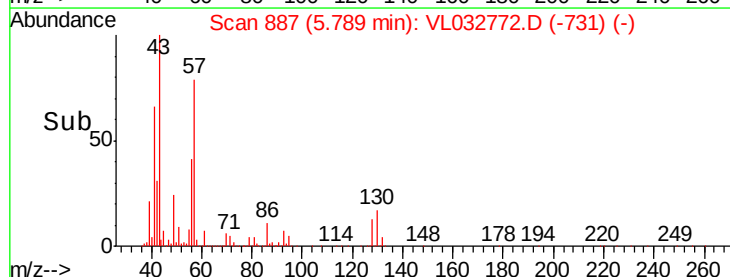
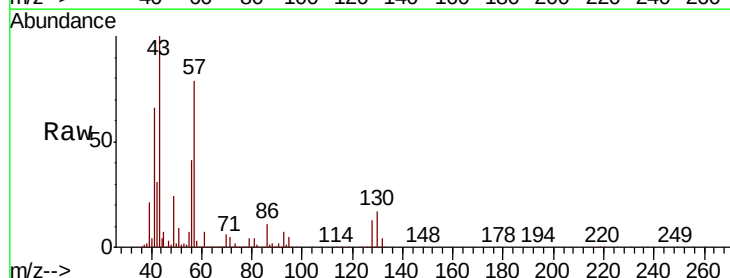
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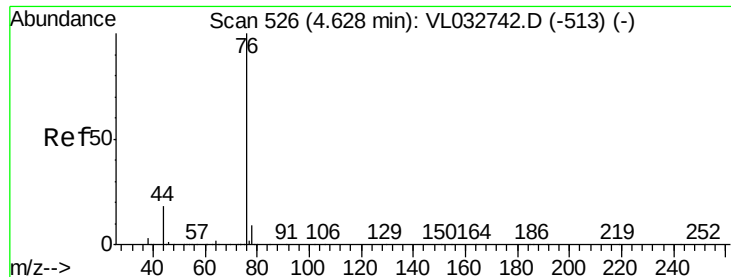
MMDadoda
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#26
Hexane
Concen: 9.743 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion	57	Resp	1472916
Ion	Ratio	Lower	Upper
57	100		
41	86.8	70.3	105.5
43	219.9	174.0	261.0
56	52.7	42.3	63.5





#27

Carbon Disulfide

Concen: 10.305 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 76 Resp: 1975496

Ion Ratio Lower Upper

76 100

44 18.1 14.4 21.6

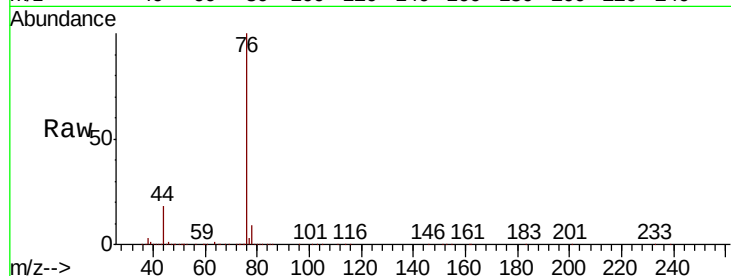
78 9.3 7.7 11.5

Manual Integrations

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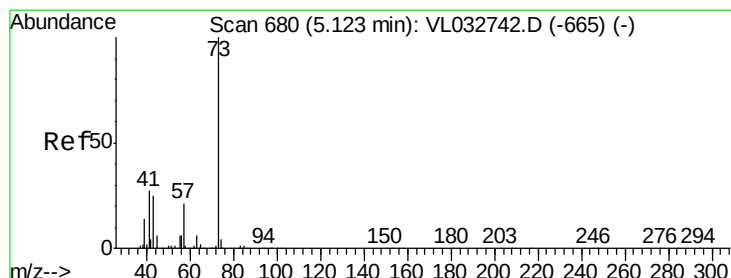
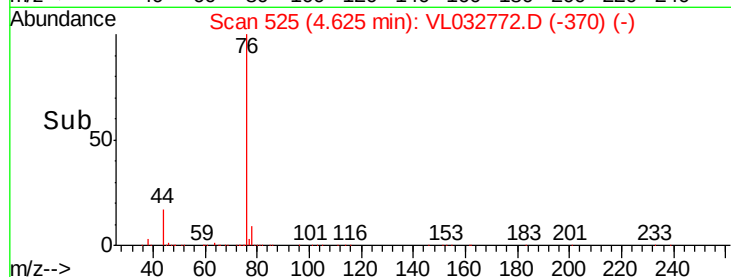
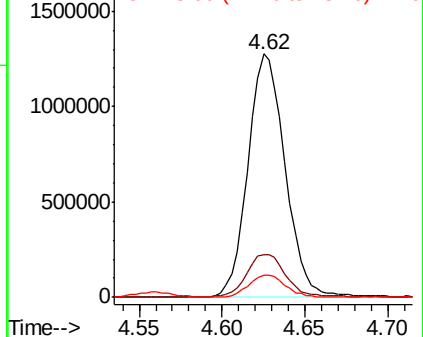
11/16/2018 1:30:15 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.145 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032772.D

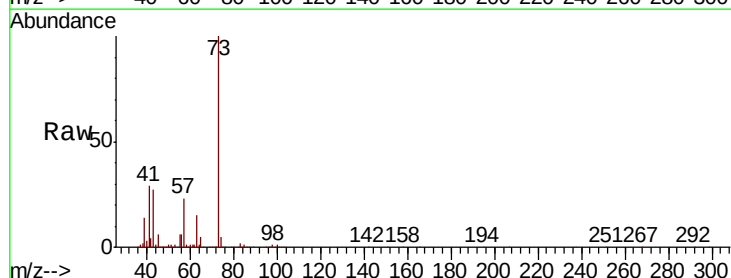
Acq: 14 Nov 2018 23:40

Tgt Ion: 73 Resp: 2445810

Ion Ratio Lower Upper

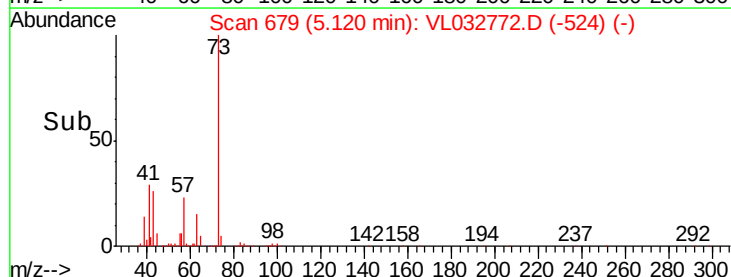
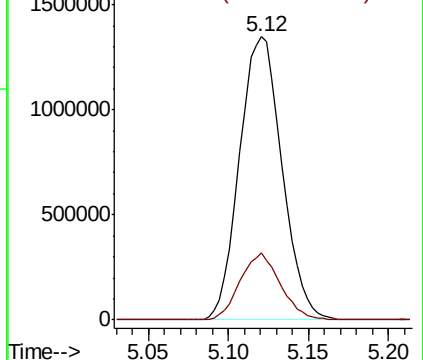
73 100

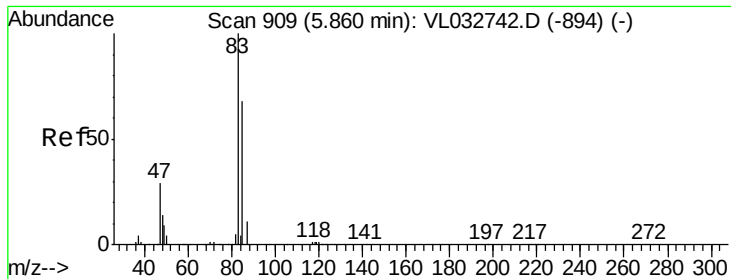
57 22.4 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





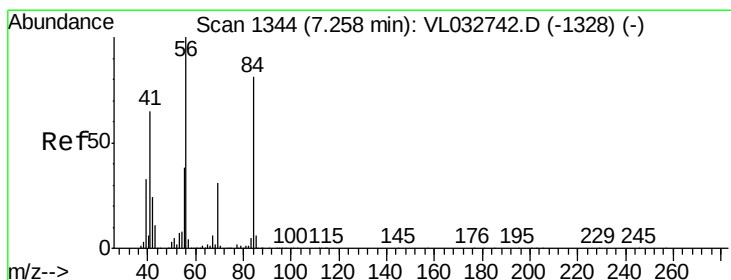
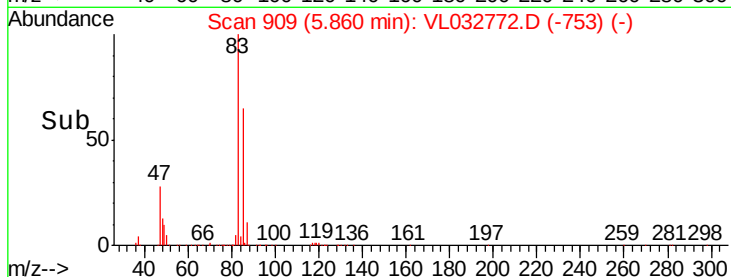
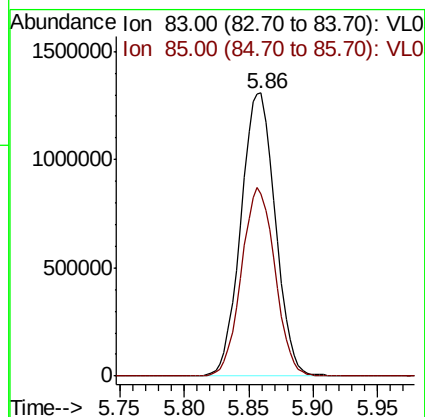
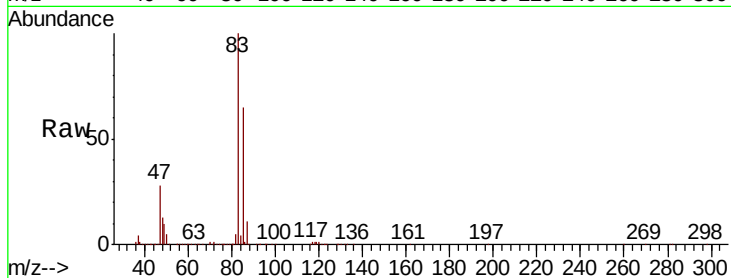
#29
Chloroform
Concen: 9.010 ppbv
RT: 5.86 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion: 83 Resp: 2427706
Ion Ratio Lower Upper
83 100
85 64.5 54.2 81.4

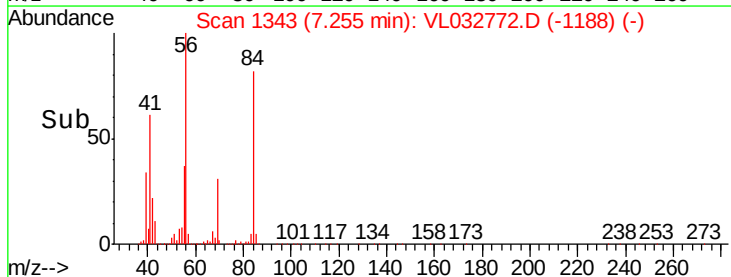
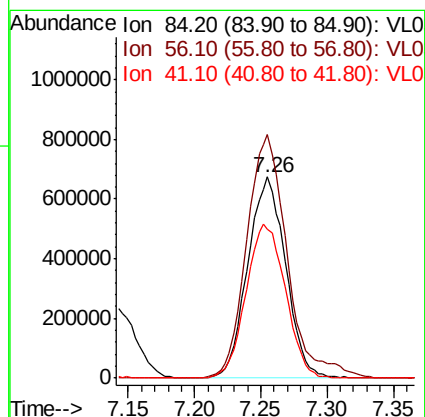
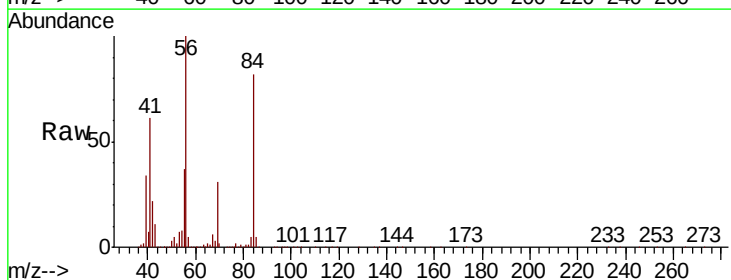
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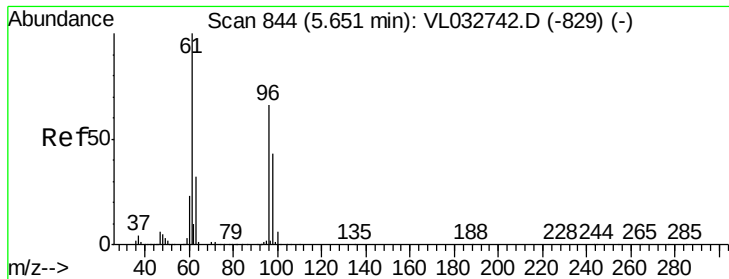
MMDadoda
11/16/2018 1:30:15 PM



#30
Cyclohexane
Concen: 10.130 ppbv
RT: 7.26 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 84 Resp: 1339390
Ion Ratio Lower Upper
84 100
56 129.9 105.0 157.4
41 79.8 65.3 97.9





#31

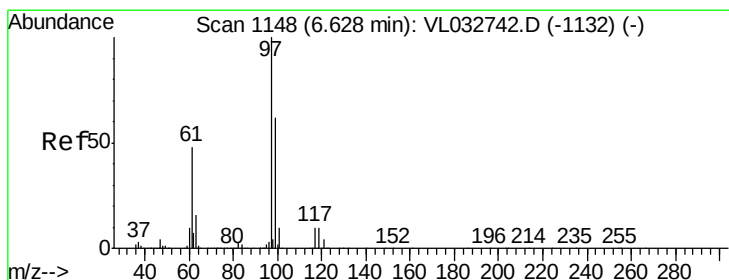
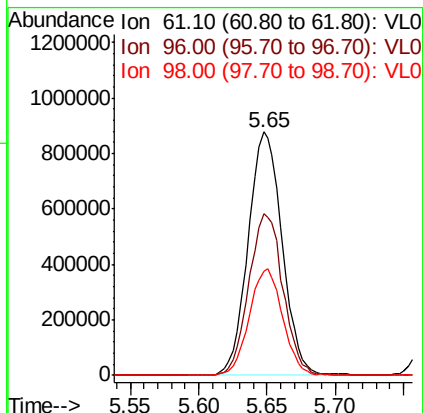
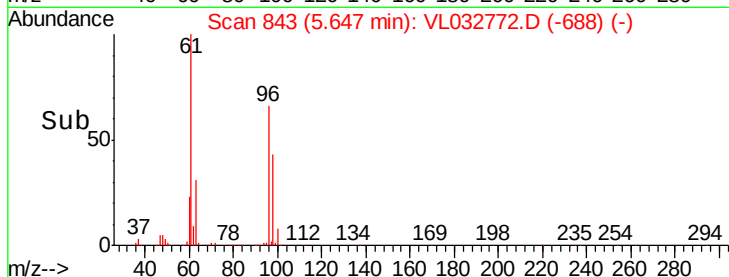
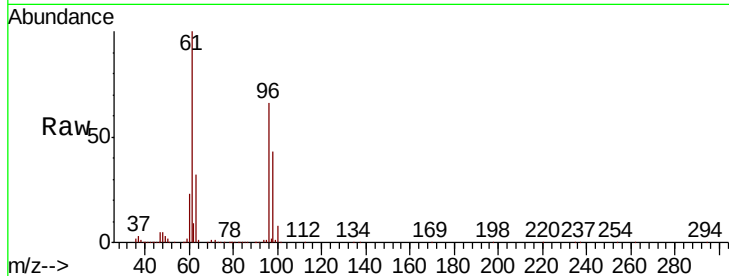
cis-1,2-Dichloroethene
Concen: 9.985 ppbv
RT: 5.65 min Scan# 843
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.5	53.2	79.8
98	43.0	34.4	51.6

Manual Integrations
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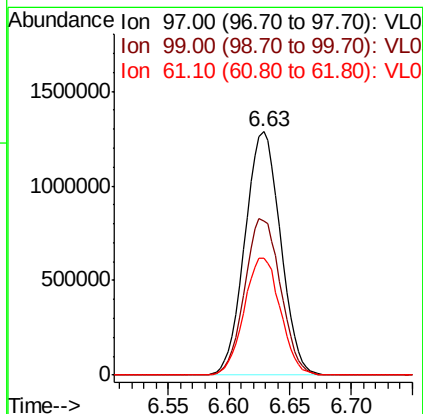
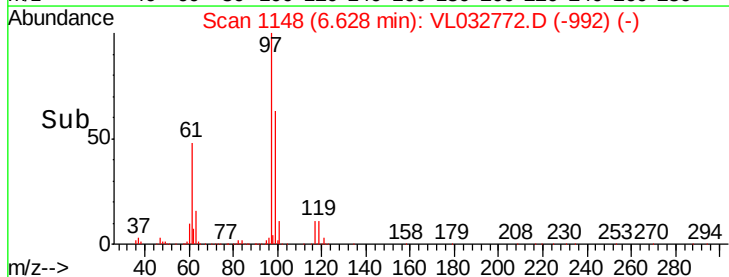
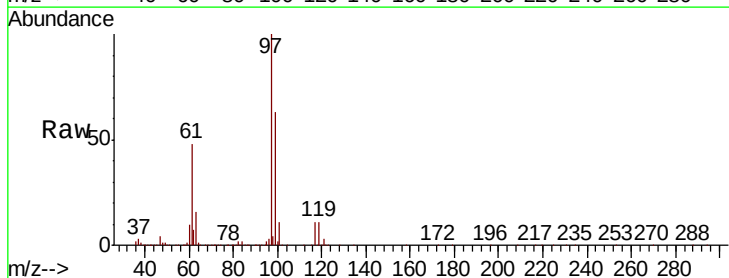
MMDadoda
11/16/2018 1:30:15 PM

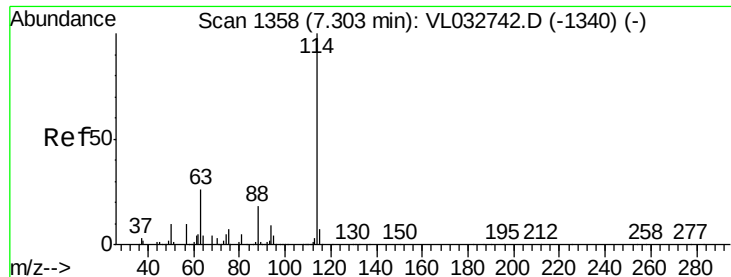


#32

1,1,1-Trichloroethane
Concen: 8.777 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.6
61	48.9	39.7	59.5





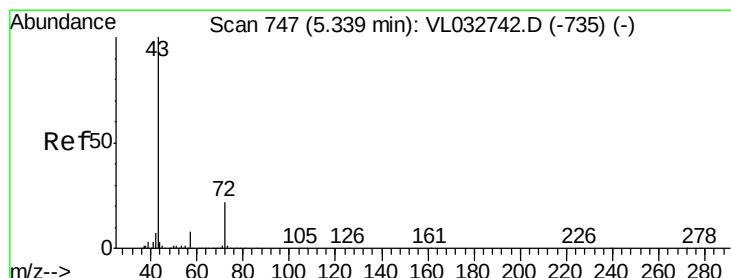
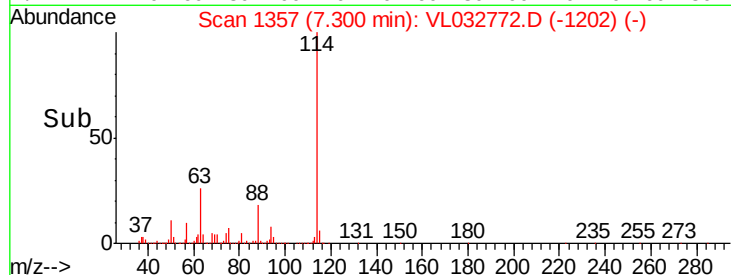
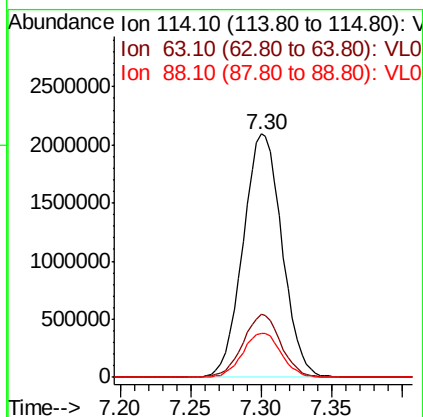
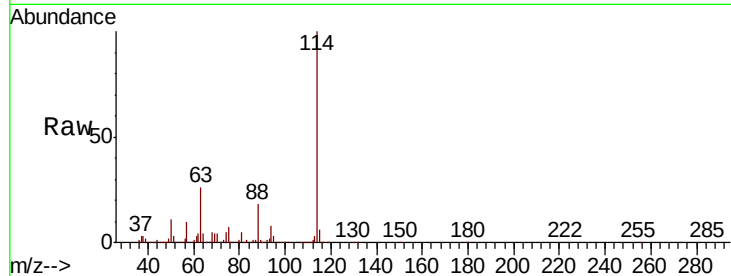
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.9	31.3
88	18.0	14.4	21.6

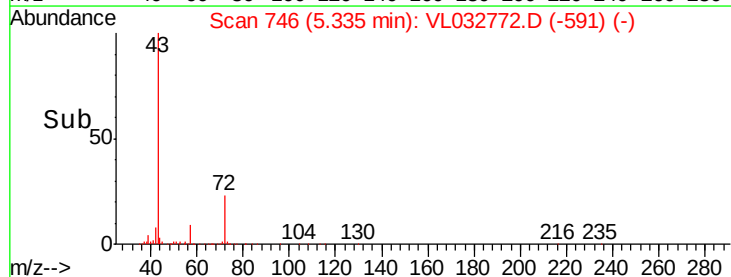
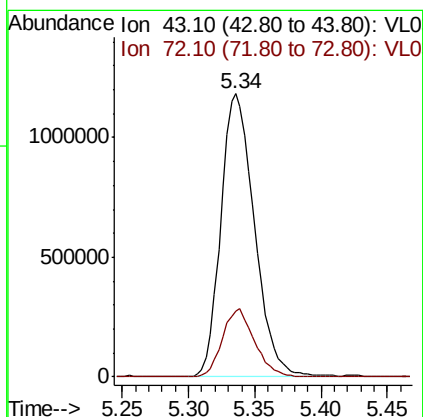
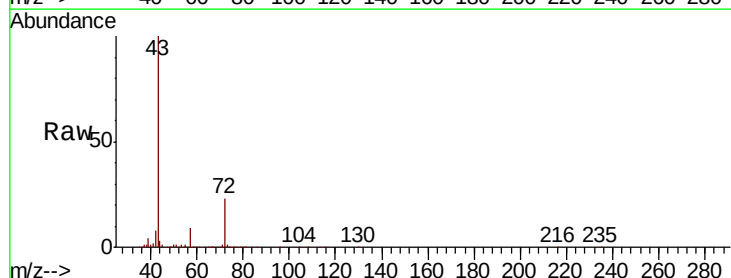
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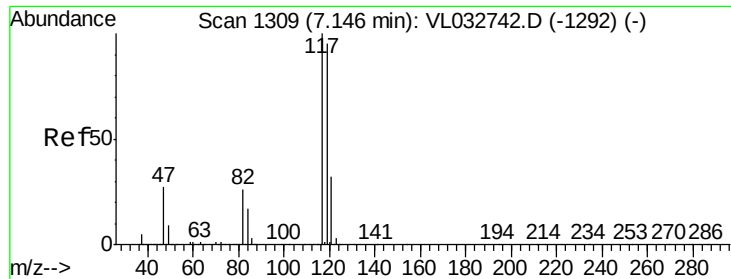
MMDadoda
 11/16/2018 1:30:15 PM



#34
 2-Butanone
 Concen: 9.836 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.4	27.6





#35

Carbon Tetrachloride

Concen: 8.532 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion:117 Resp: 2776926

Ion Ratio Lower Upper

117 100

119 94.1 76.1 114.1

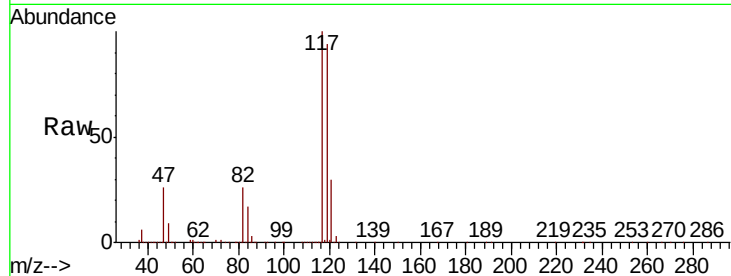
121 30.1 25.4 38.0

Manual Integrations

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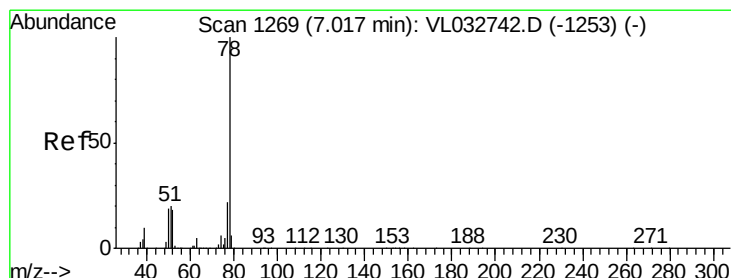
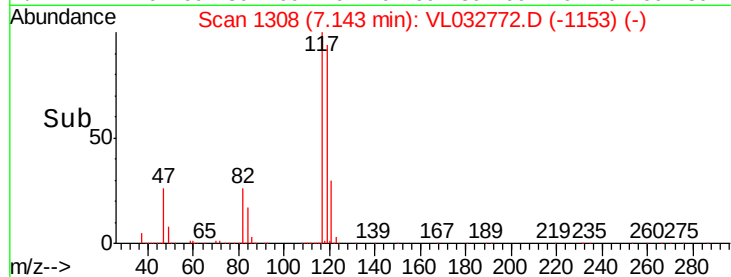
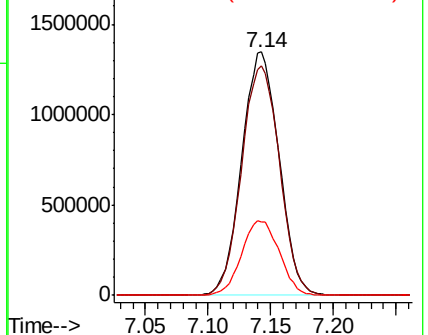
11/16/2018 1:30:15 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.037 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

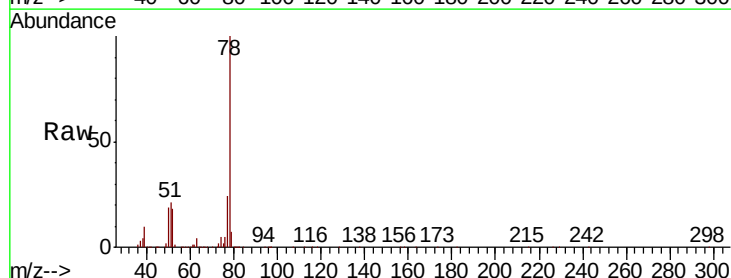
Tgt Ion: 78 Resp: 3235837

Ion Ratio Lower Upper

78 100

77 23.6 17.8 26.8

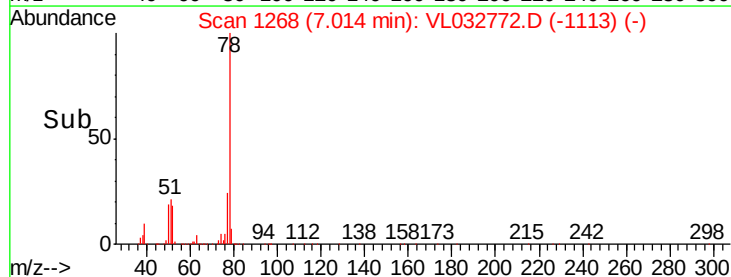
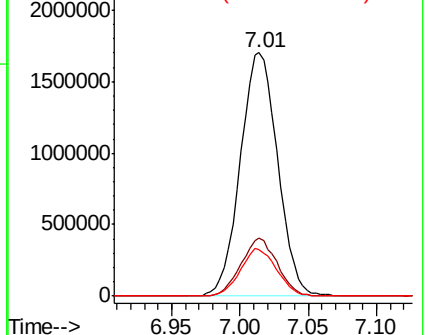
50 19.1 15.4 23.0

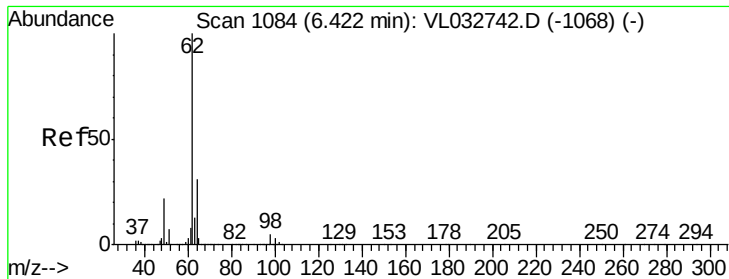


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





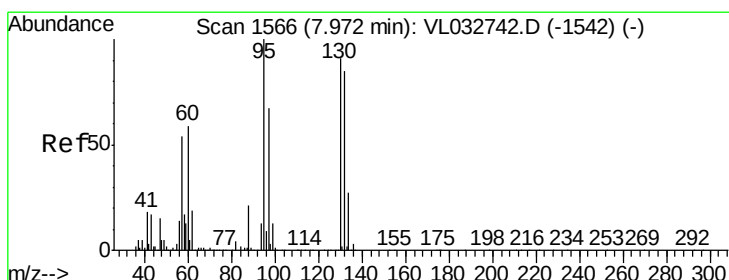
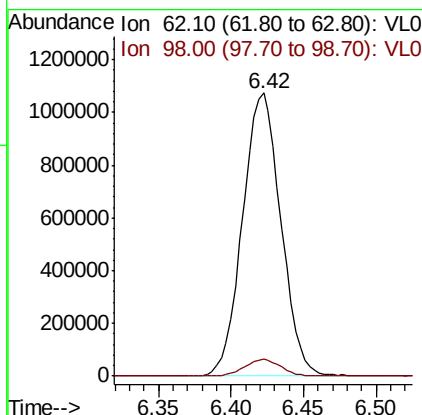
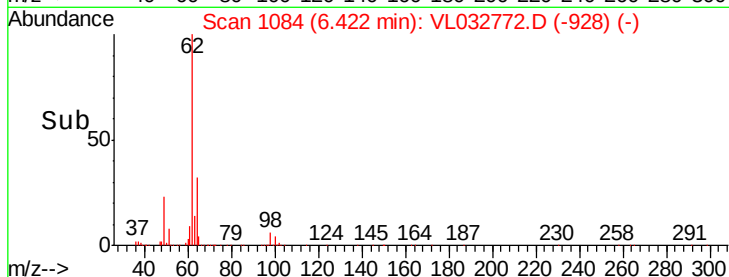
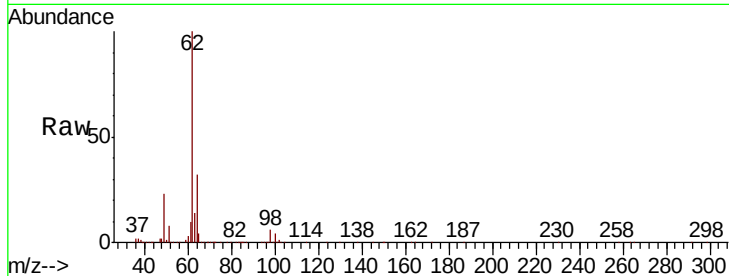
#37
 1,2-Dichloroethane
 Concen: 9.093 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion: 62 Resp: 1973475
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.5 6.7

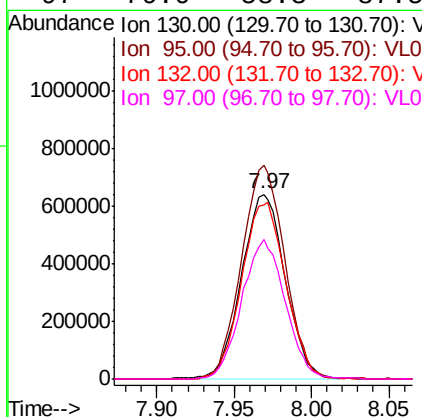
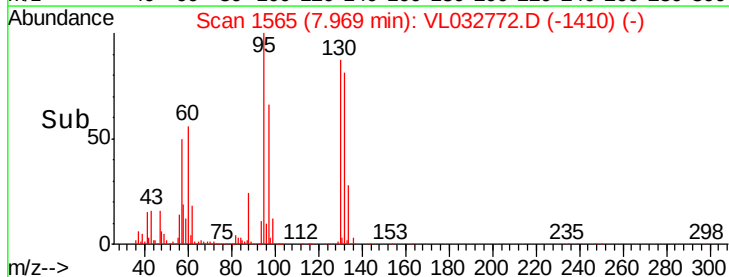
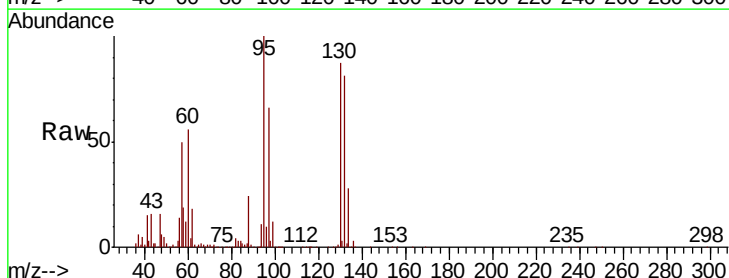
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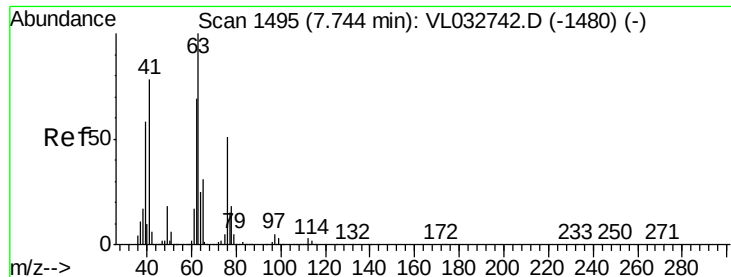
MMDadoda
 11/16/2018 1:30:15 PM



#38
 Trichloroethene
 Concen: 9.564 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion:130 Resp: 1247845
 Ion Ratio Lower Upper
 130 100
 95 115.7 87.7 131.5
 132 94.1 74.6 111.8
 97 76.0 58.3 87.5





#39

1,2-Dichloropropane

Concen: 9.822 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 63 Resp: 1206499

Ion Ratio Lower Upper

63 100

41 72.7 62.0 93.0

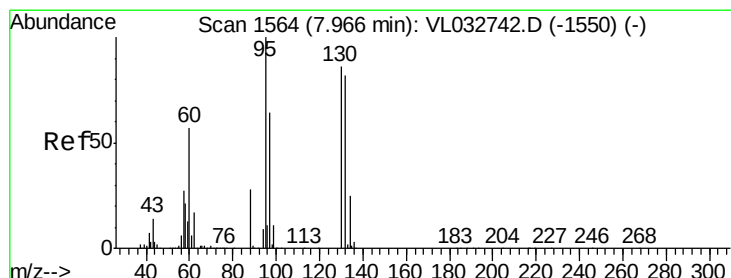
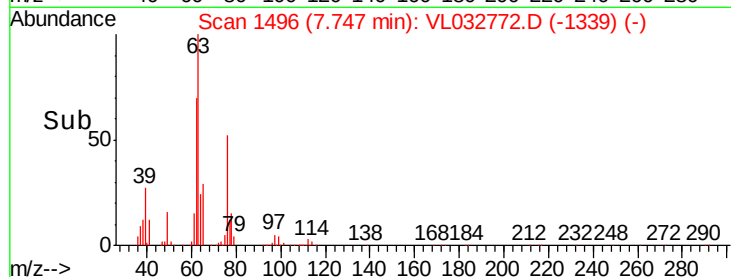
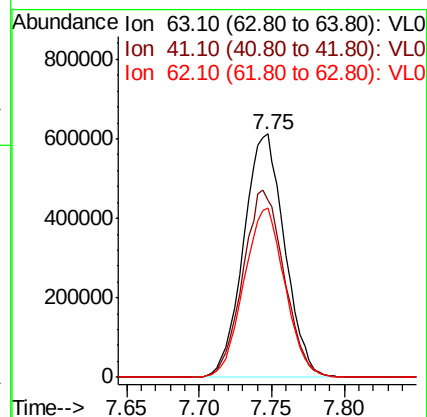
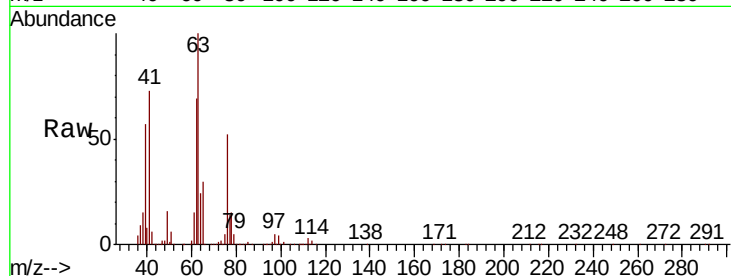
62 69.3 55.4 83.2

Manual Integrations

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#40

1,4-Dioxane

Concen: 10.382 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Tgt Ion: 88 Resp: 455502

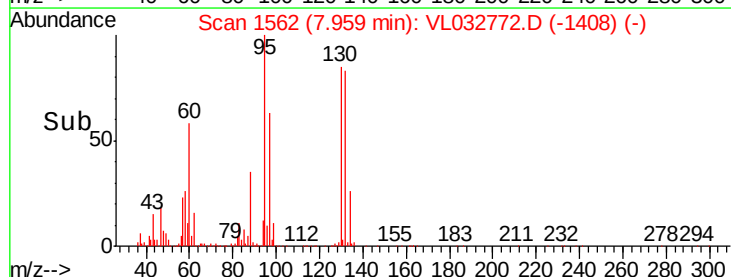
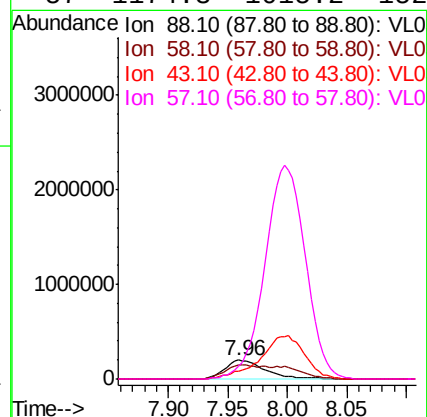
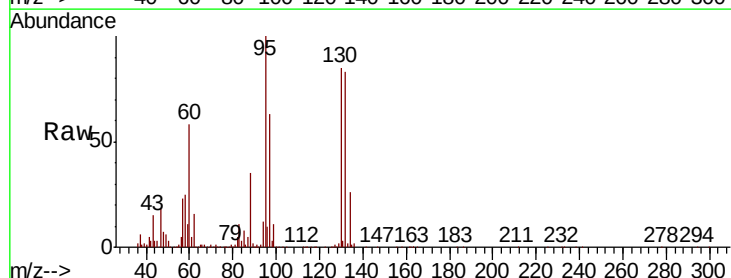
Ion Ratio Lower Upper

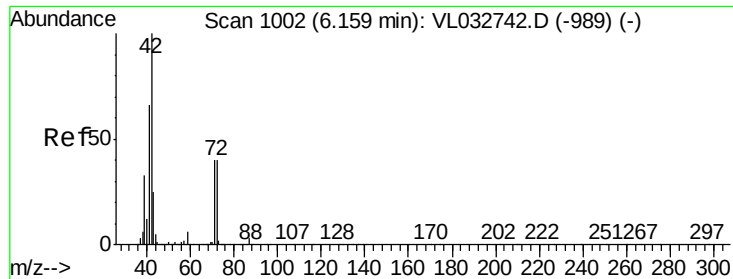
88 100

58 125.8 105.3 157.9

43 261.9 226.1 339.1

57 1174.3 1015.2 1522.8





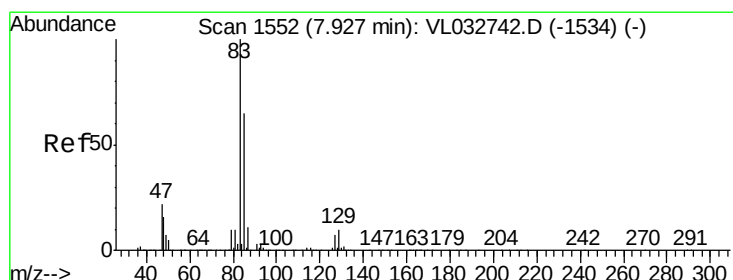
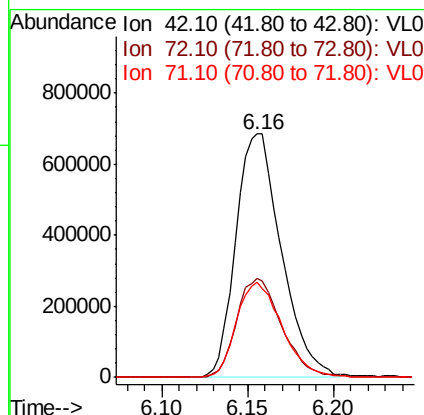
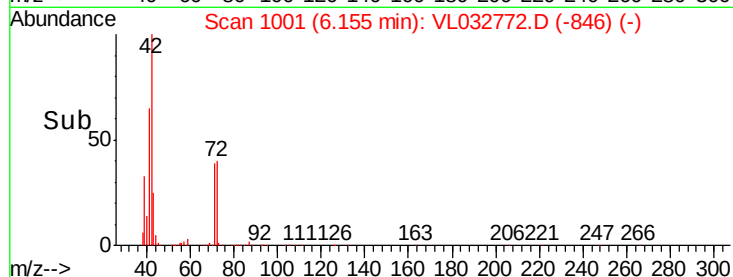
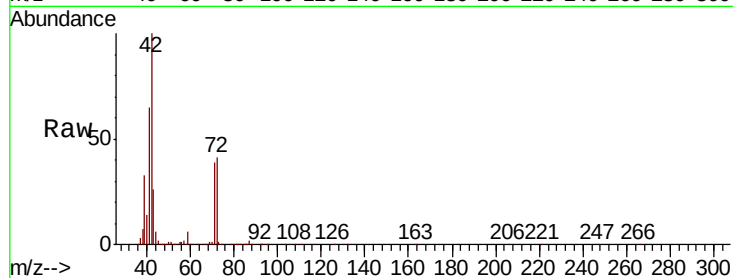
#41
Tetrahydrofuran
Concen: 10.494 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.4	48.6
71	39.2	31.6	47.4

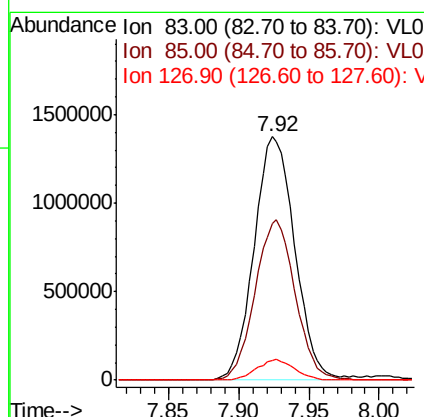
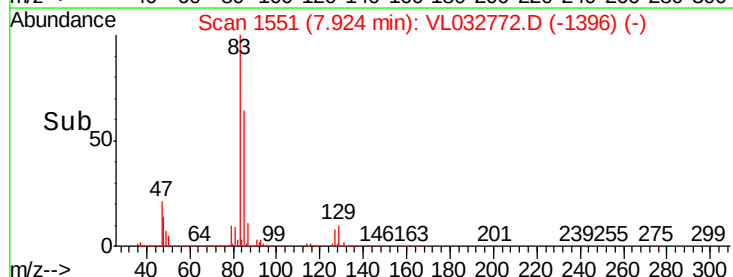
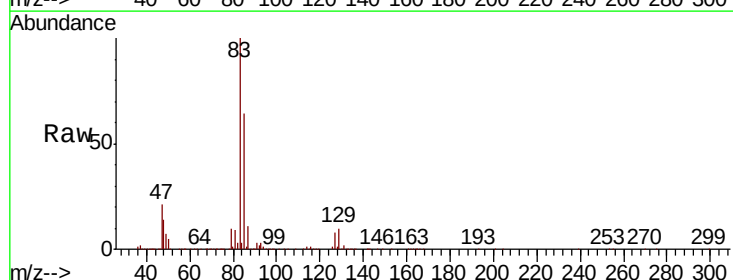
Manual Integrations
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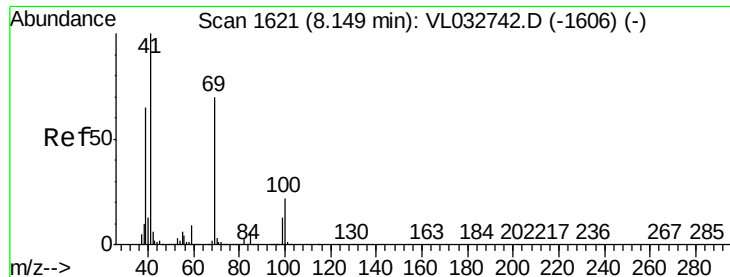
MMDadoda
11/16/2018 1:30:15 PM



#42
Bromodichloromethane
Concen: 9.411 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.8	77.8
127	7.8	5.9	8.9





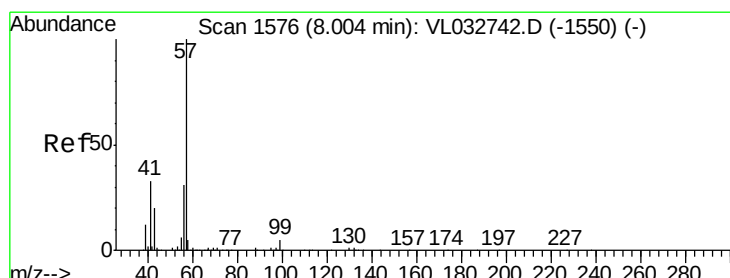
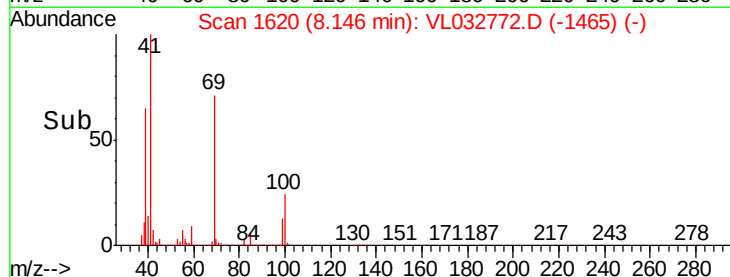
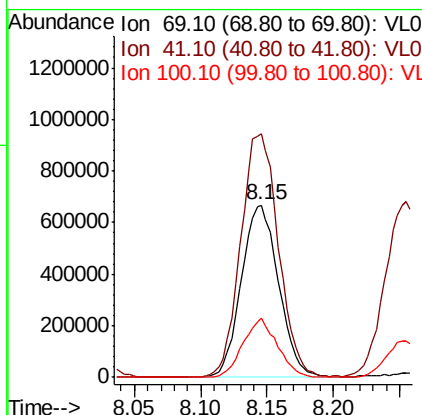
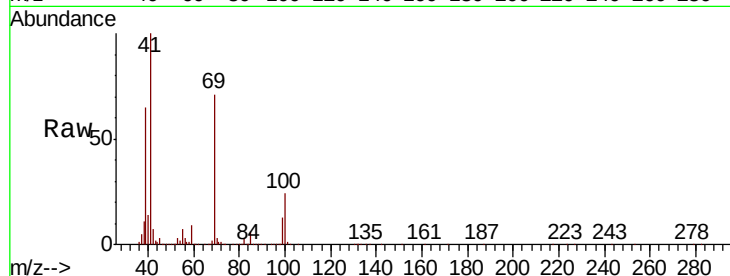
#43
Methyl Methacrylate
Concen: 10.834 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion: 69 Resp: 1304020
Ion Ratio Lower Upper
69 100
41 143.0 115.0 172.4
100 31.5 25.4 38.0

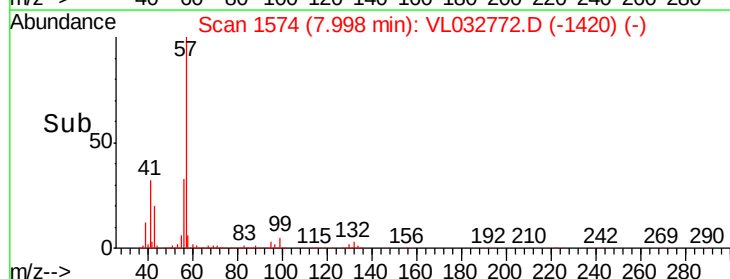
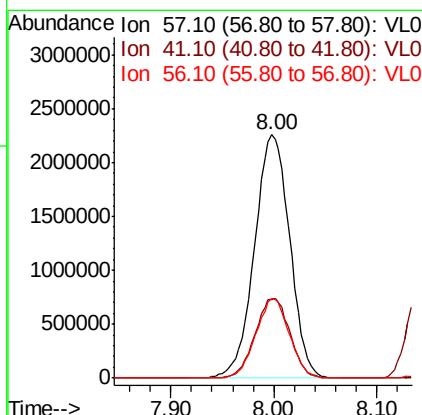
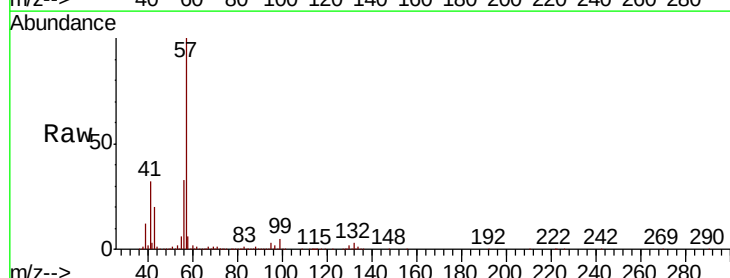
Manual Integrations
APPROVED

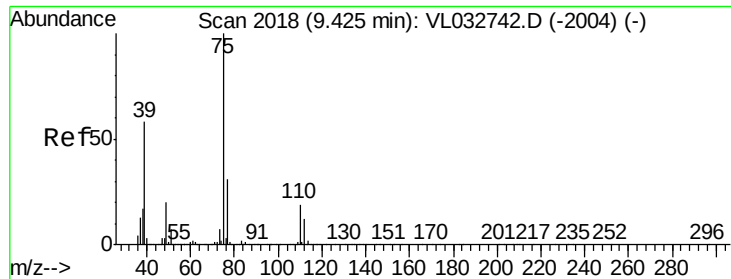
MMDadoda
11/16/2018 1:30:15 PM



#44
2,2,4-Trimethylpentane
Concen: 9.919 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 57 Resp: 5343996
Ion Ratio Lower Upper
57 100
41 32.4 26.6 39.8
56 31.0 24.8 37.2





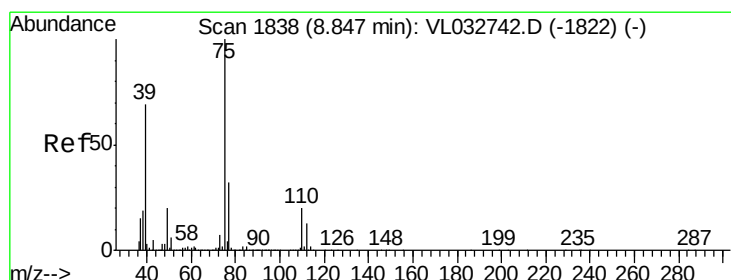
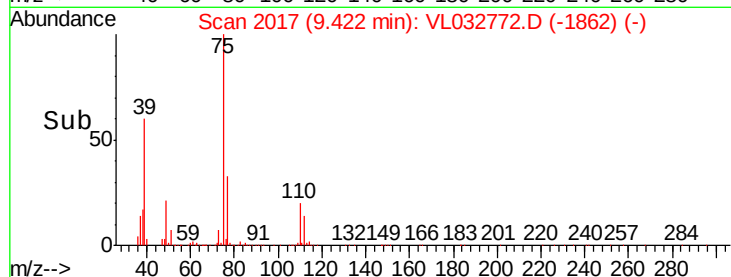
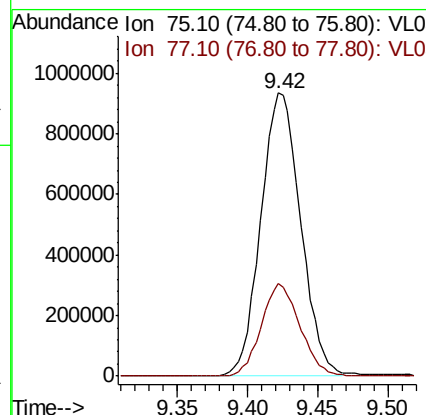
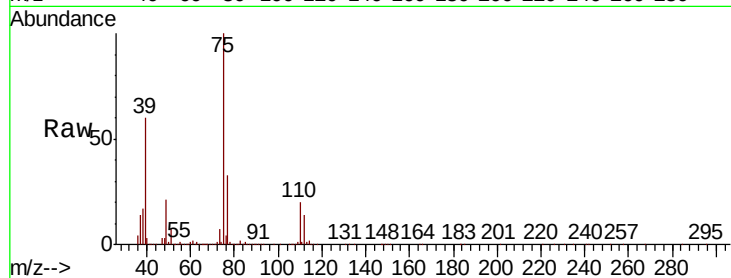
#45
t-1,3-Dichloropropene
Concen: 11.386 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion: 75 Resp: 1838960
Ion Ratio Lower Upper
75 100
77 32.7 24.6 36.8

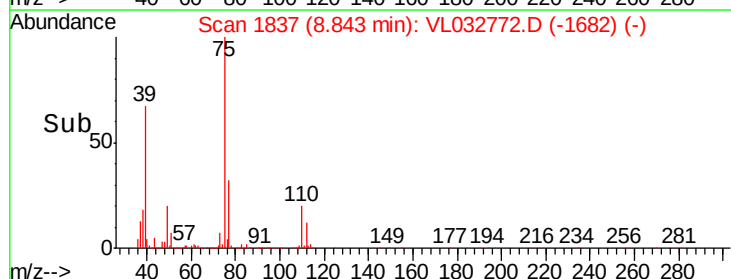
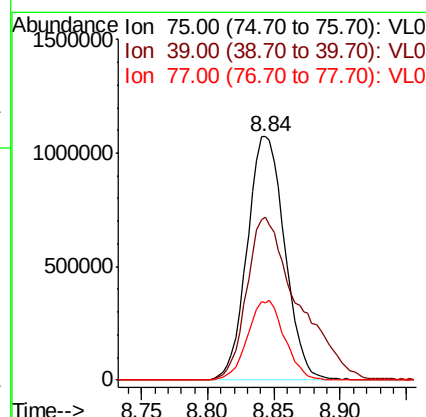
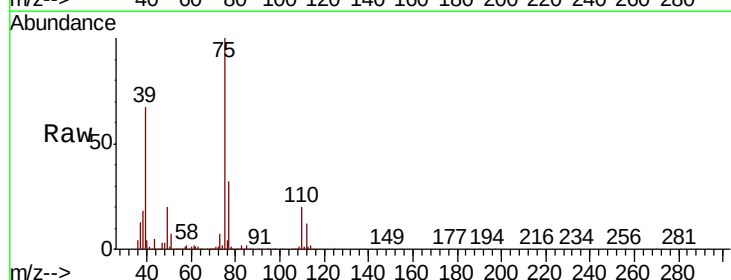
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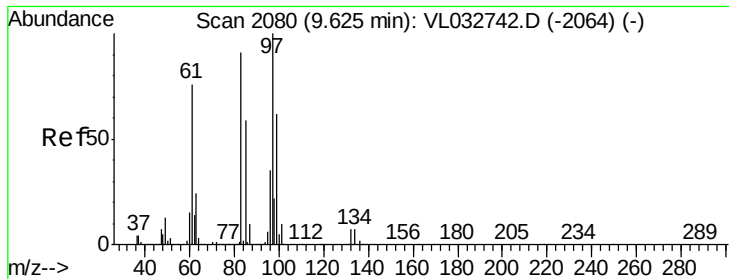
MMDadoda
11/16/2018 1:30:15 PM



#46
cis-1,3-Dichloropropene
Concen: 10.816 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 75 Resp: 2110482
Ion Ratio Lower Upper
75 100
39 67.0 55.2 82.8
77 31.8 25.8 38.6





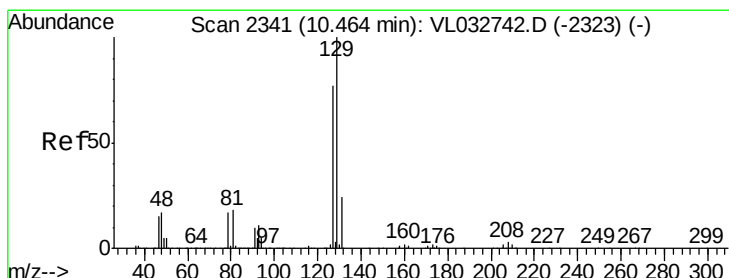
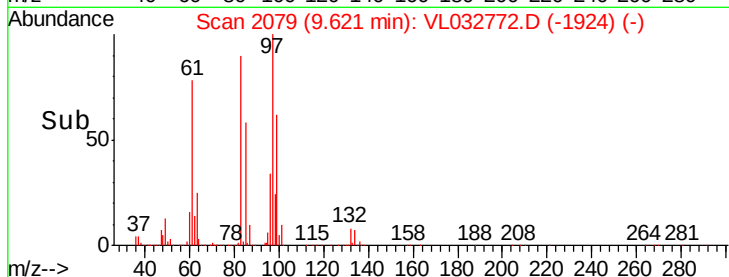
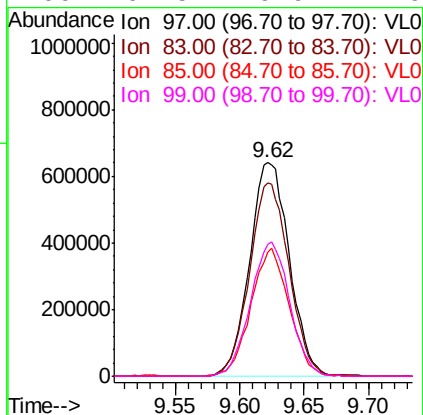
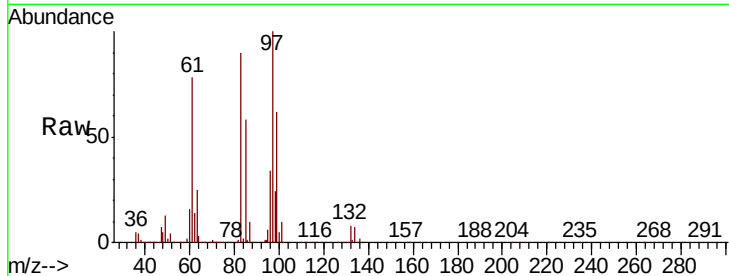
#47
 1,1,2-Trichloroethane
 Concen: 9.506 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.3	73.0	109.4
85	57.8	47.0	70.4
99	61.5	49.9	74.9

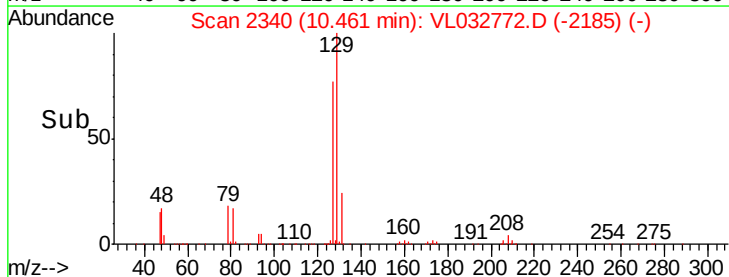
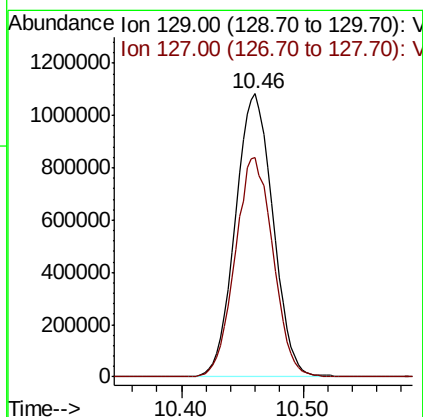
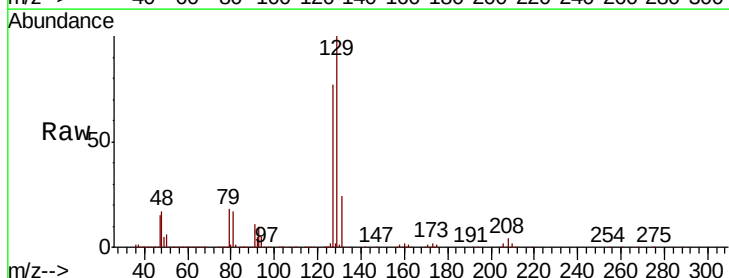
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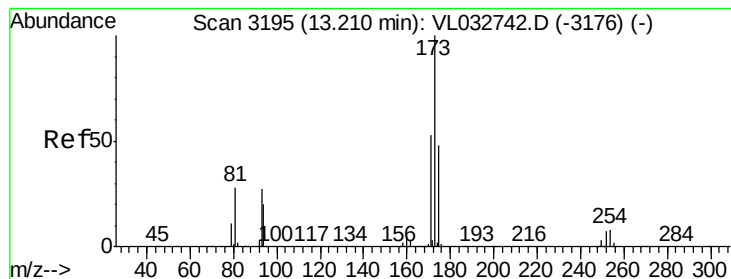
MMDadoda
 11/16/2018 1:30:15 PM



#48
 Dibromochloromethane
 Concen: 9.371 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.0	117.0





#49

Bromoform

Concen: 8.961 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion:173 Resp: 1826993

Ion Ratio Lower Upper

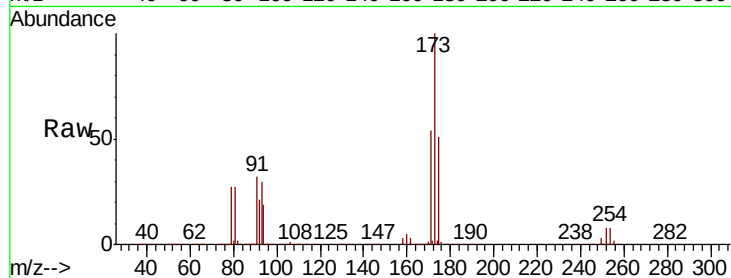
173 100

175 49.1 39.4 59.0

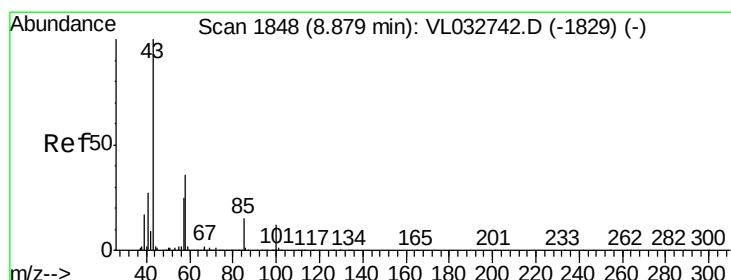
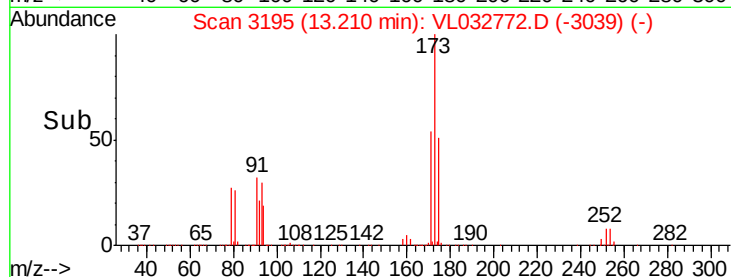
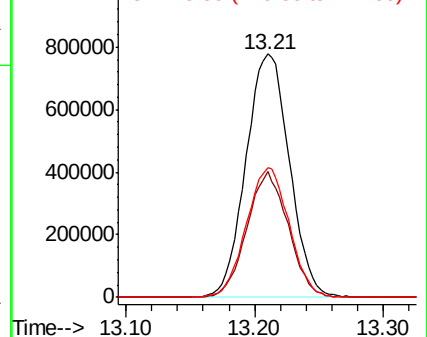
171 52.6 42.0 63.0

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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.998 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VL032772.D

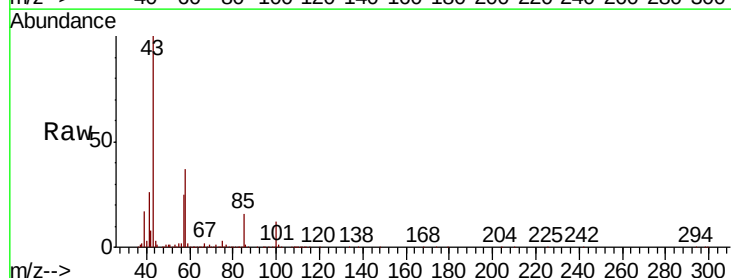
Acq: 14 Nov 2018 23:40

Tgt Ion: 43 Resp: 3279092

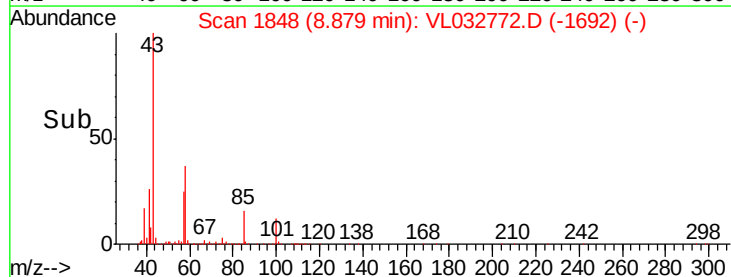
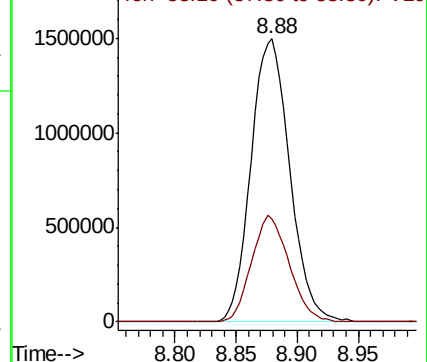
Ion Ratio Lower Upper

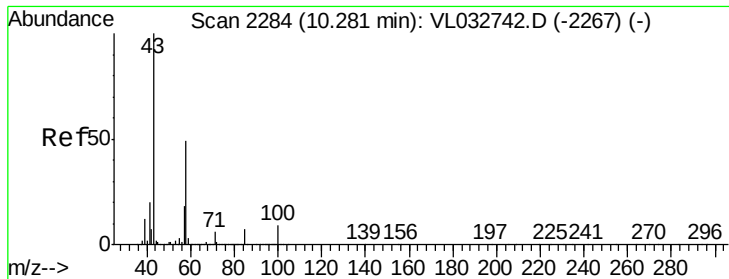
43 100

58 36.7 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





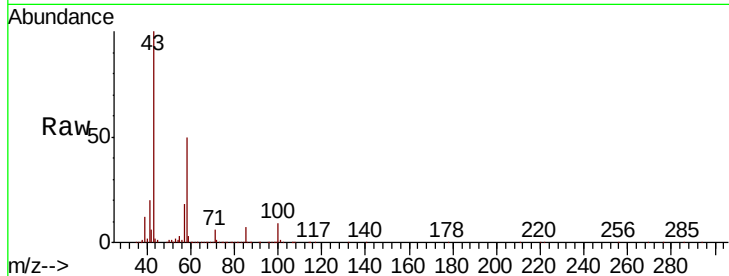
#51
2-Hexanone
Concen: 10.987 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

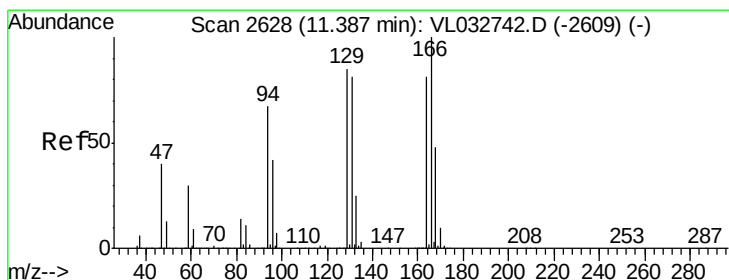
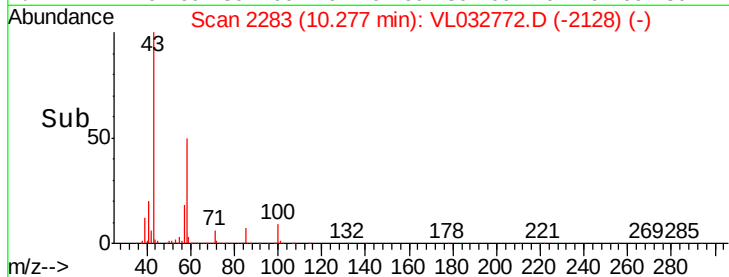
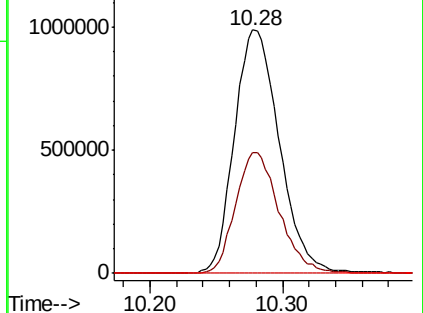
Tot Ion	Ratio	Lower	Upper
43	100		
58	48.5	38.9	58.3
98	0.3	0.2	0.4

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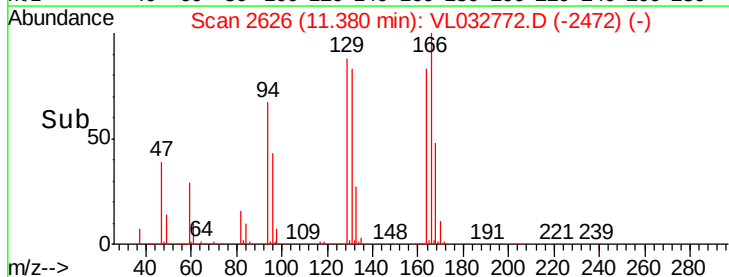
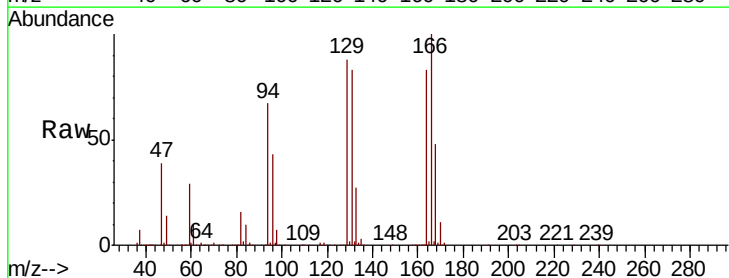
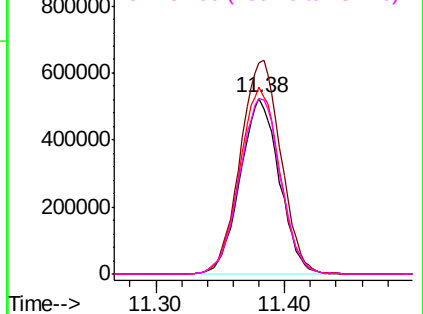
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

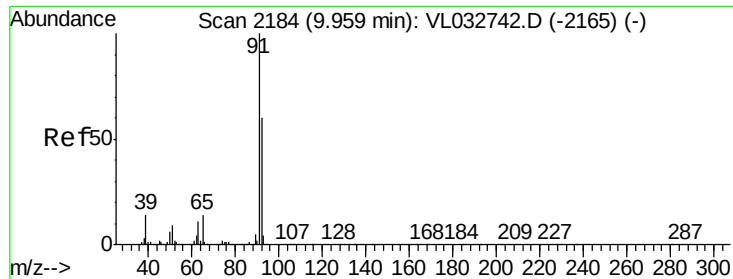


#52
Tetrachloroethene
Concen: 9.847 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.4	99.3	148.9
129	106.3	83.9	125.9
131	100.0	80.8	121.2

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





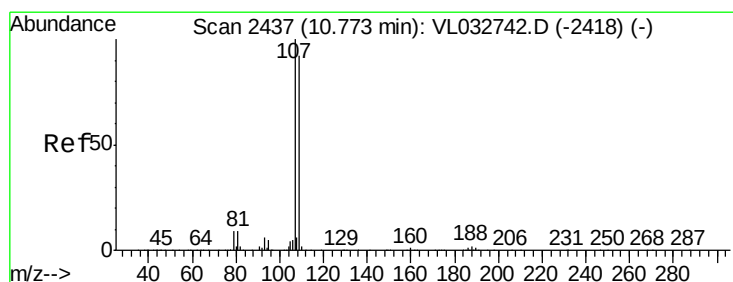
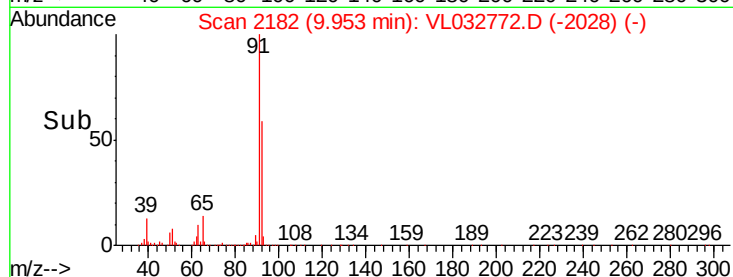
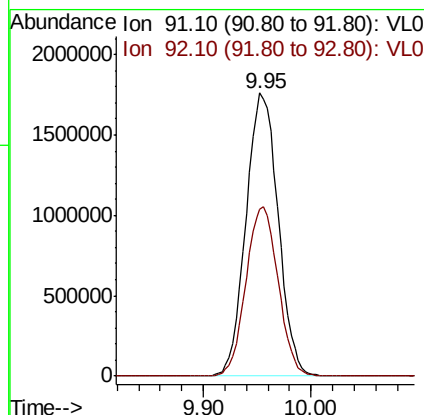
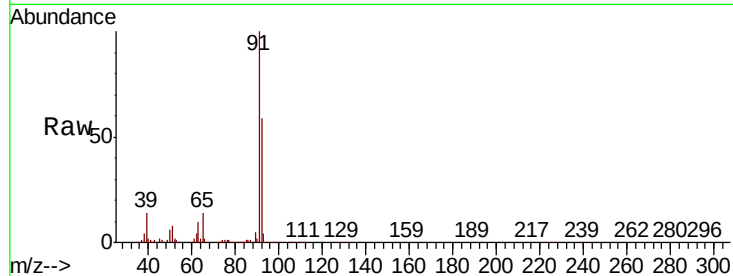
#53
Toluene
Concen: 10.892 ppbv
RT: 9.95 min Scan# 2182
Delta R.T. -0.01 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion: 91 Resp: 3663244
Ion Ratio Lower Upper
91 100
92 59.8 47.9 71.9

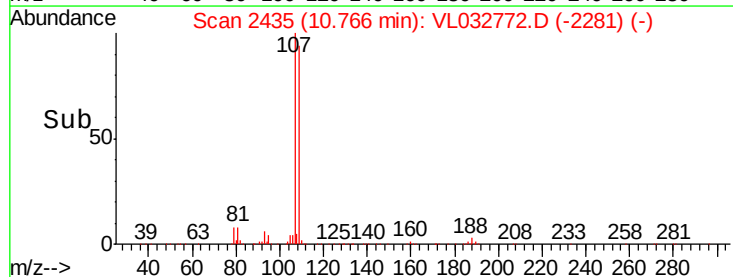
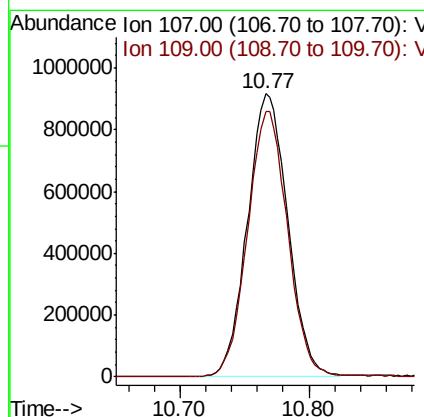
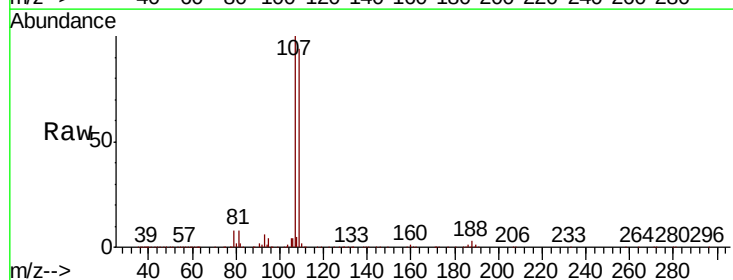
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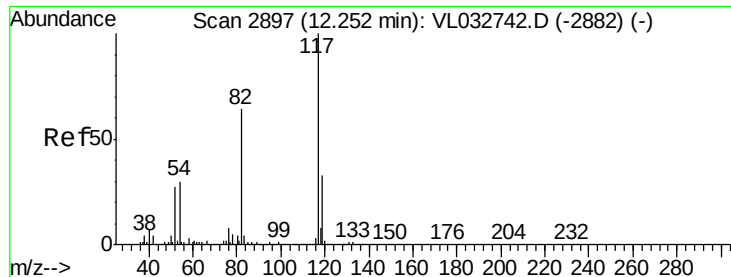
MMDadoda
11/16/2018 1:30:15 PM



#54
1,2-Dibromoethane
Concen: 9.709 ppbv
RT: 10.77 min Scan# 2435
Delta R.T. -0.01 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 107 Resp: 1993508
Ion Ratio Lower Upper
107 100
109 93.9 73.8 110.8





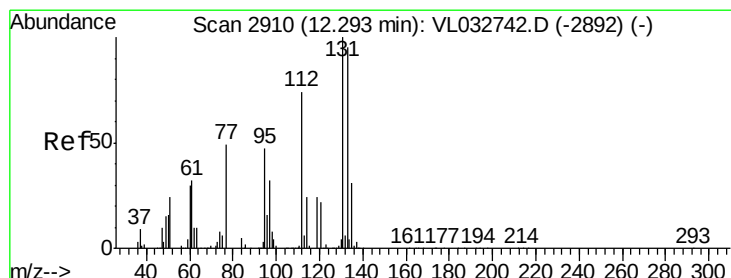
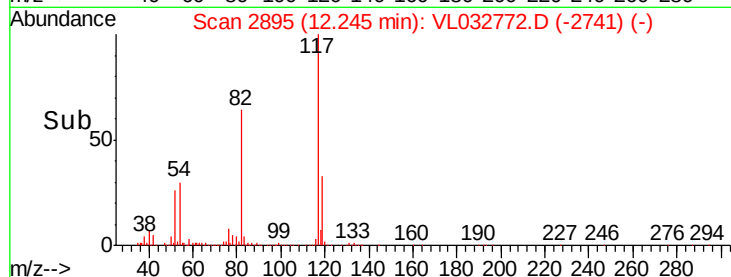
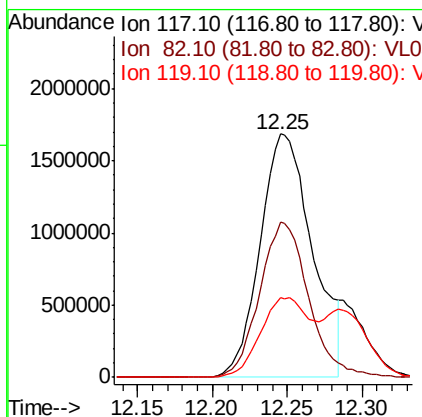
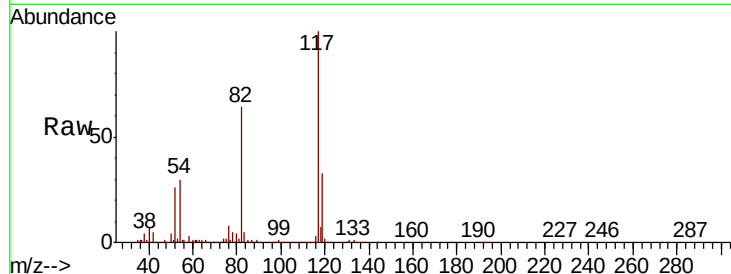
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion:117 Resp: 4100684
Ion Ratio Lower Upper
117 100
82 59.9 51.0 76.6
119 29.5 28.0 42.0

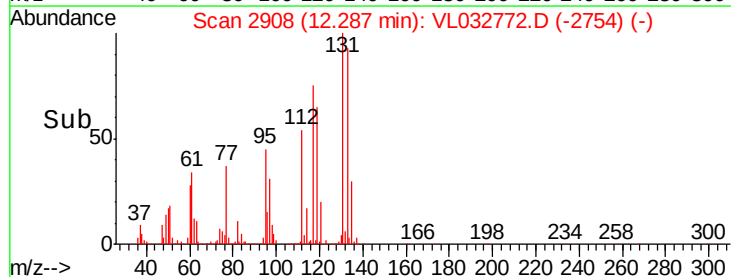
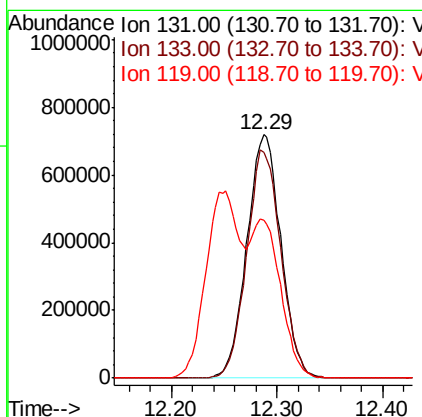
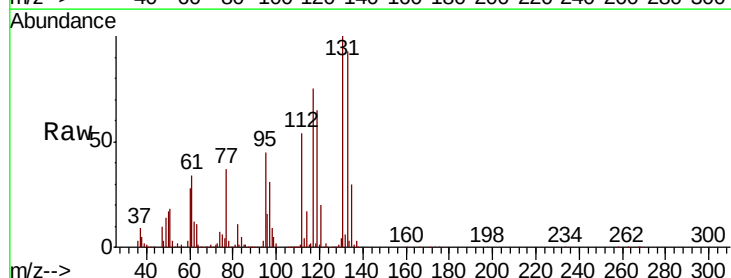
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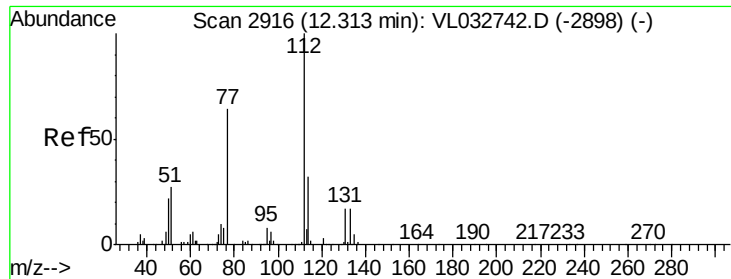
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.436 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion:131 Resp: 1613519
Ion Ratio Lower Upper
131 100
133 94.4 75.8 113.6
119 57.7 45.2 67.8





#57

Chlorobenzene

Concen: 8.560 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. -0.01 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 112 Resp: 2687173

Ion Ratio Lower Upper

112 100

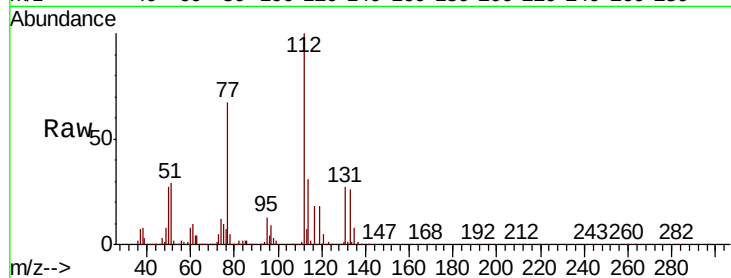
77 66.5 52.3 78.5

114 30.9 28.4 34.8

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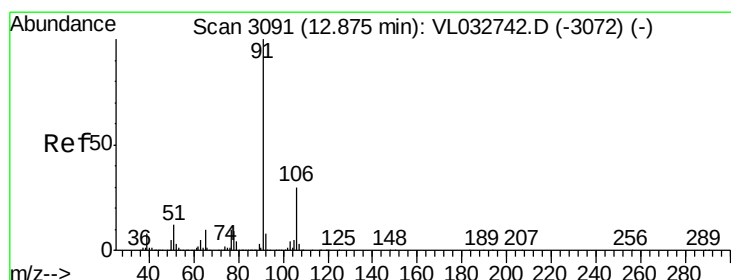
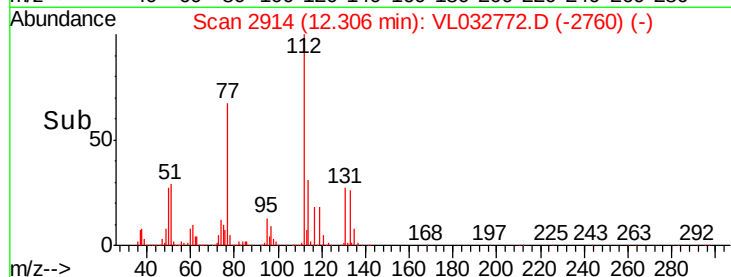
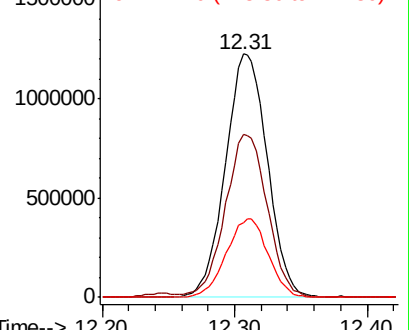
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.764 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032772.D

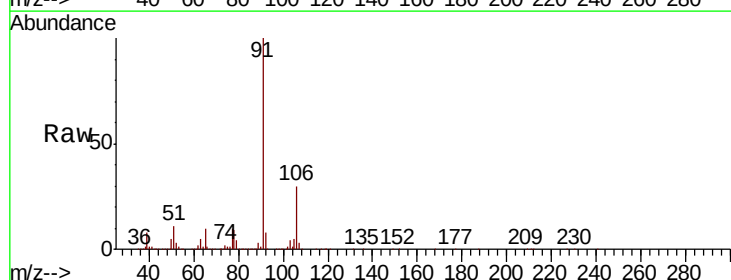
Acq: 14 Nov 2018 23:40

Tgt Ion: 91 Resp: 4818690

Ion Ratio Lower Upper

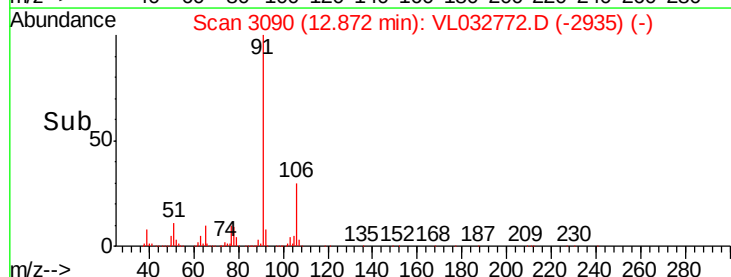
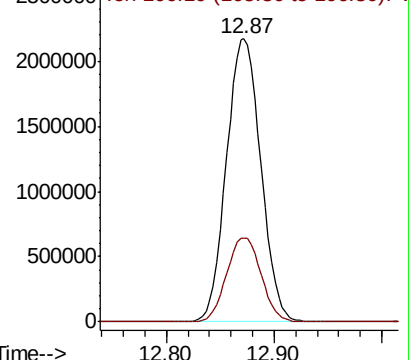
91 100

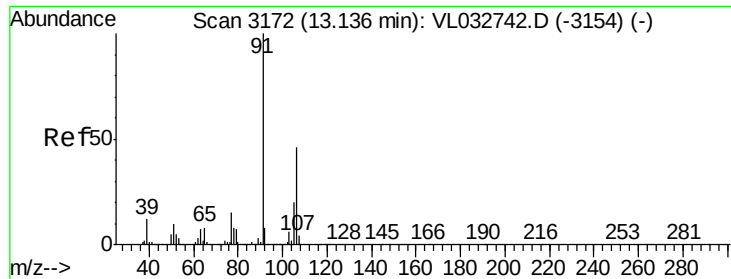
106 29.5 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





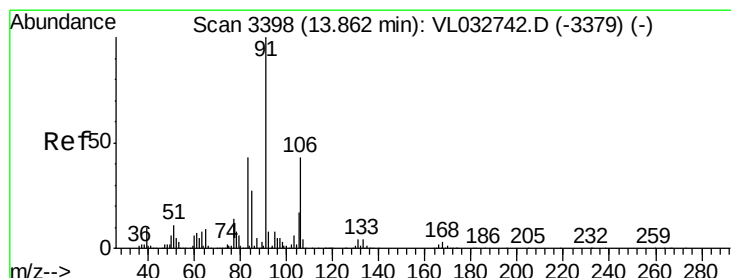
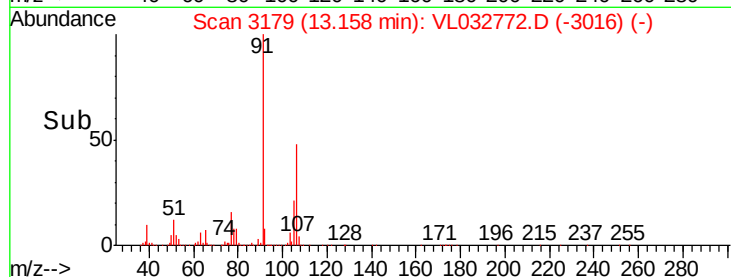
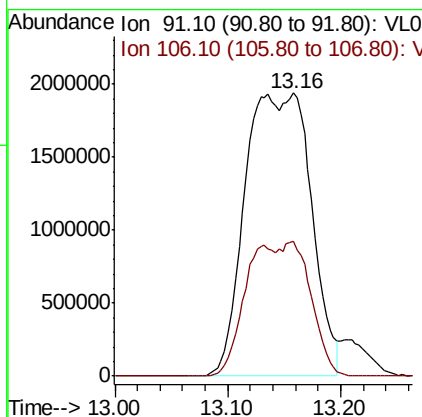
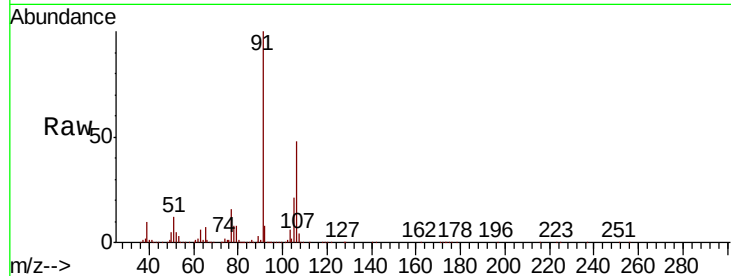
#59
m/p-Xylene
Concen: 17.899 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. 0.02 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion: 91 Resp: 7863481
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

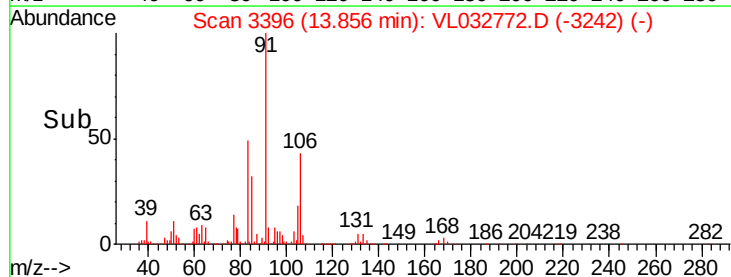
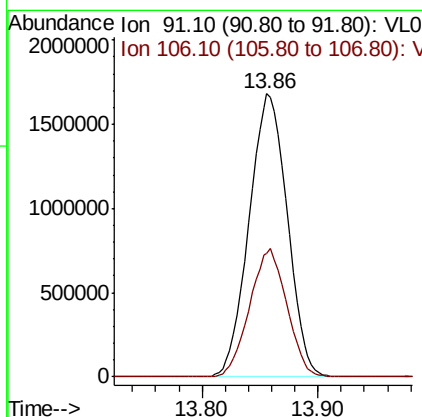
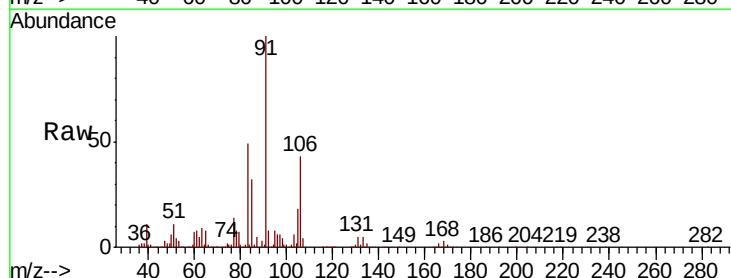
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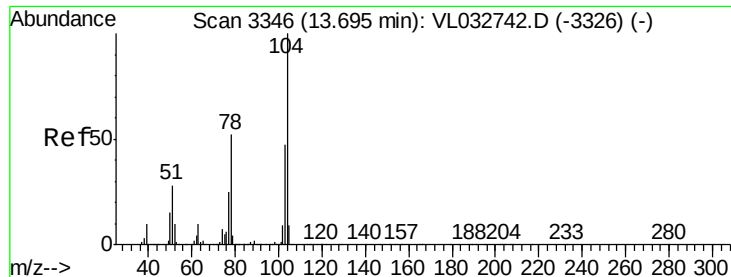
MMDadoda
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#60
o-Xylene
Concen: 8.725 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 91 Resp: 3854288
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.7





#61

Stvrene

Concen: 10.132 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion:104 Resp: 2913468

Ion Ratio Lower Upper

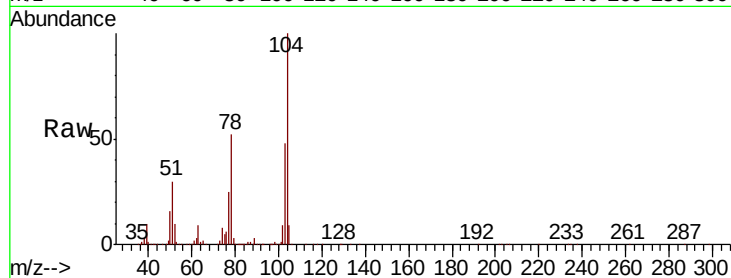
104 100

78 52.4 42.2 63.4

103 48.0 38.2 57.2

Manual Integrations
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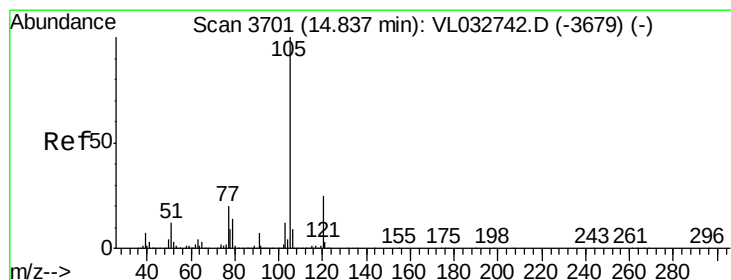
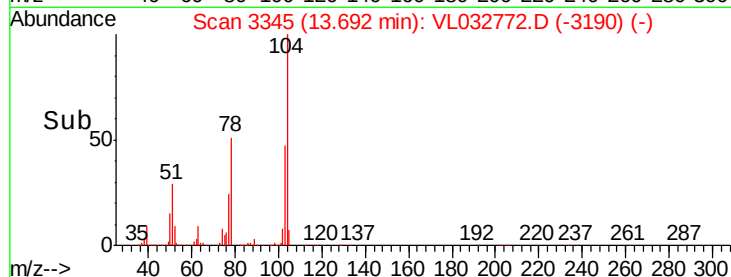
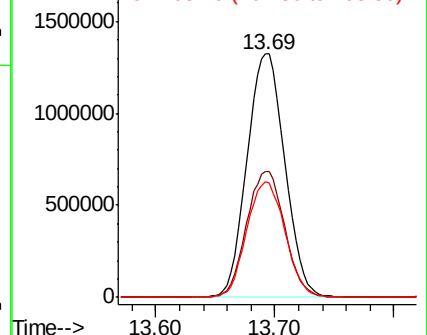
MMDadoda
11/16/2018 1:30:15 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.002 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.00 min

Lab File: VL032772.D

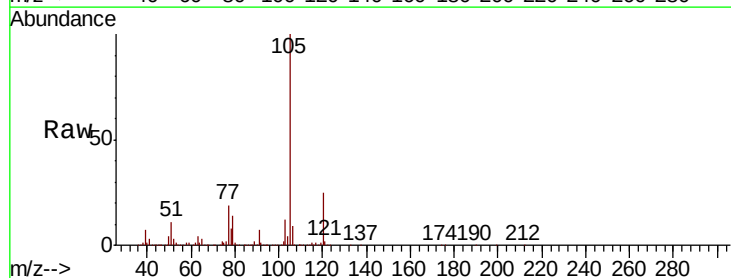
Acq: 14 Nov 2018 23:40

Tgt Ion:105 Resp: 5374777

Ion Ratio Lower Upper

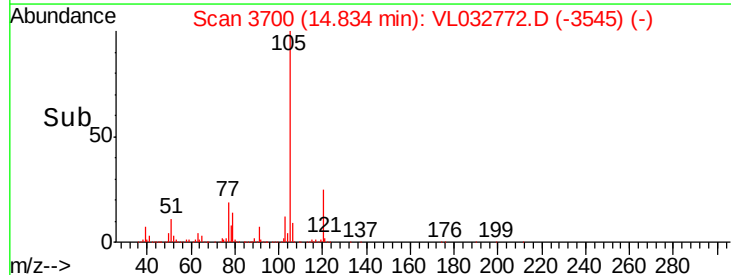
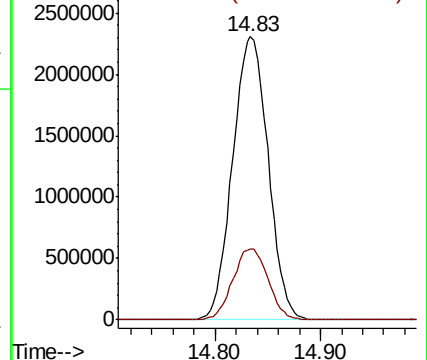
105 100

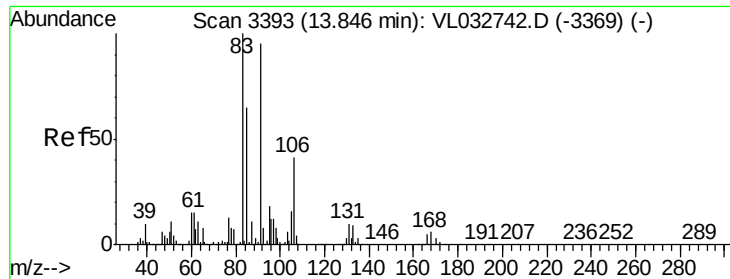
120 25.1 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.473 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 83 Resp: 2573254

Ion Ratio Lower Upper

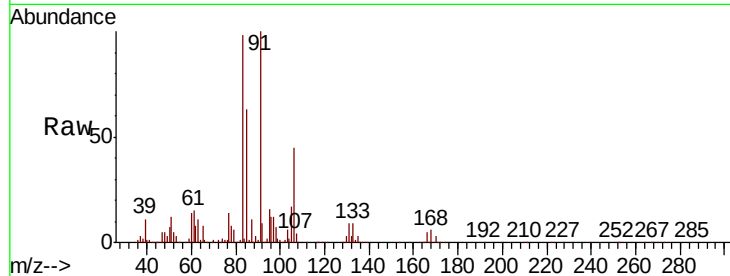
83 100

131 9.3 4.7 14.1

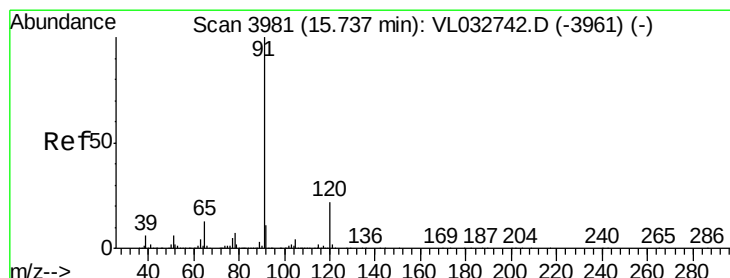
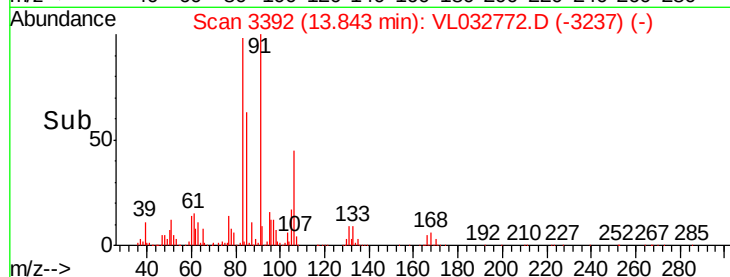
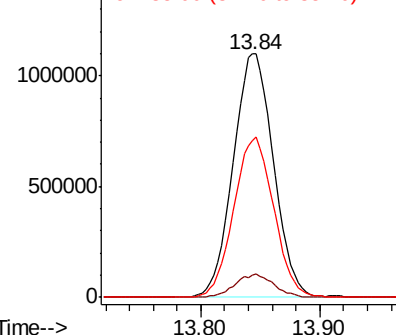
85 65.3 32.5 97.4

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11/16/2018 1:30:15 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.668 ppbv

RT: 15.73 min Scan# 3980

Delta R.T. -0.00 min

Lab File: VL032772.D

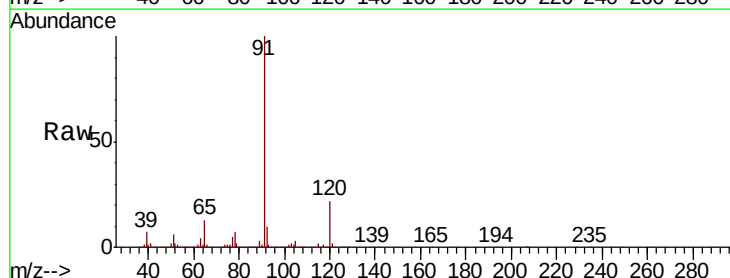
Acq: 14 Nov 2018 23:40

Tgt Ion:120 Resp: 1361352

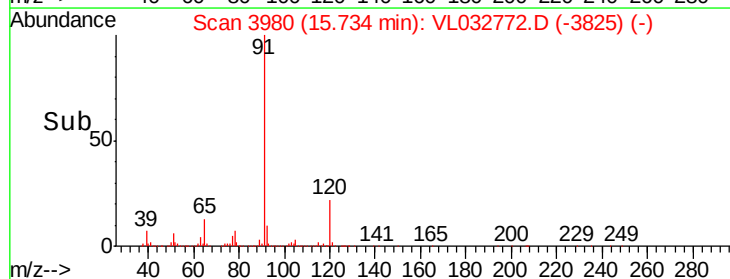
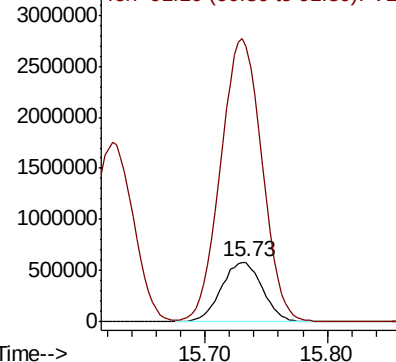
Ion Ratio Lower Upper

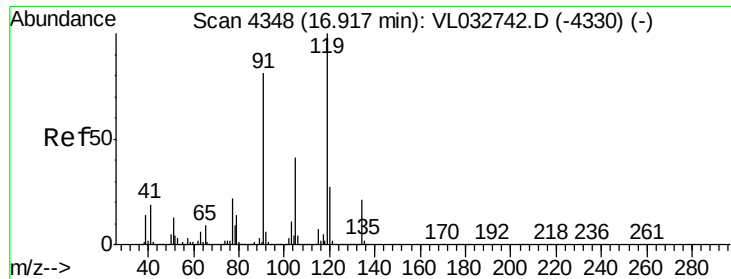
120 100

91 478.7 381.7 572.5



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





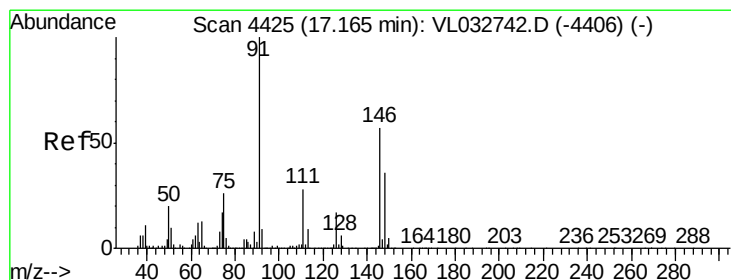
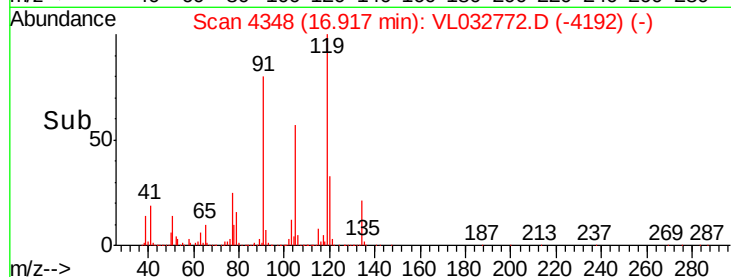
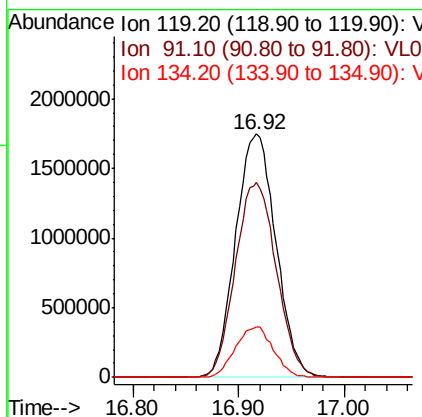
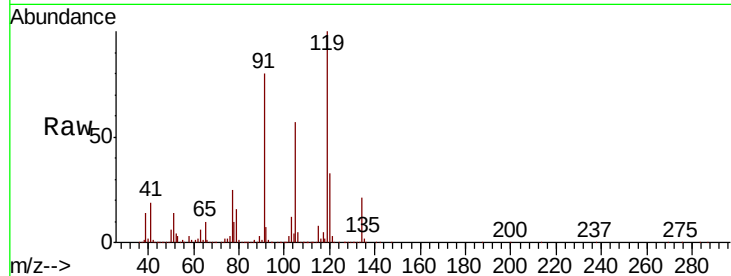
#65
tert-Butylbenzene
Concen: 8.657 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion:119 Resp: 4633343
Ion Ratio Lower Upper
119 100
91 81.7 65.6 98.4
134 19.7 15.9 23.9

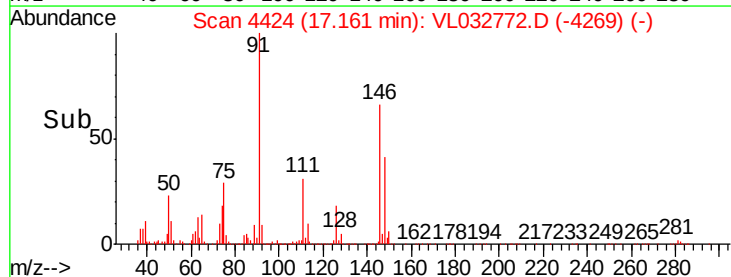
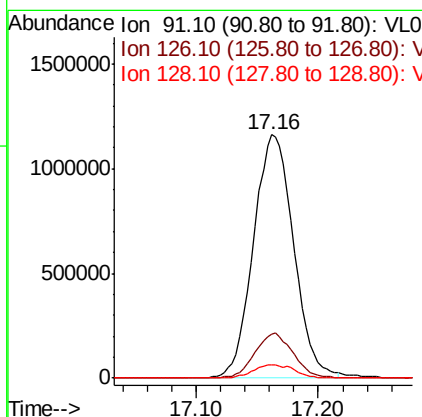
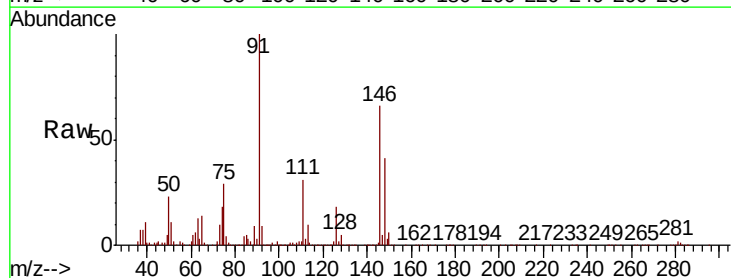
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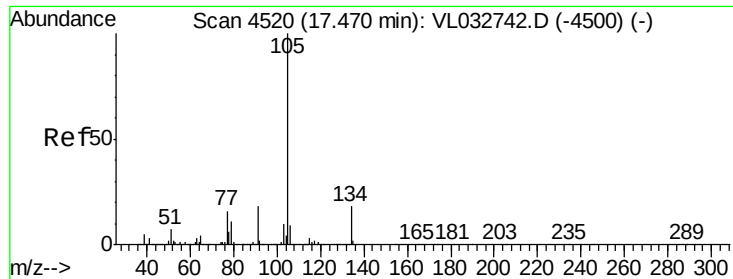
MMDadoda
11/16/2018 1:30:15 PM



#66
Benzyl Chloride
Concen: 8.947 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion: 91 Resp: 2647642
Ion Ratio Lower Upper
91 100
126 17.9 14.2 21.2
128 5.7 4.5 6.7





#67

sec-Butylbenzene

Concen: 8.541 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion: 105 Resp: 6588153

Ion Ratio Lower Upper

105 100

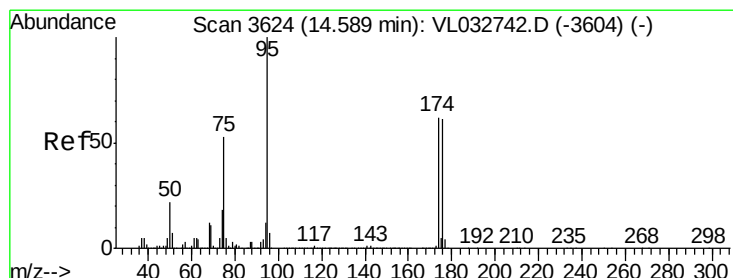
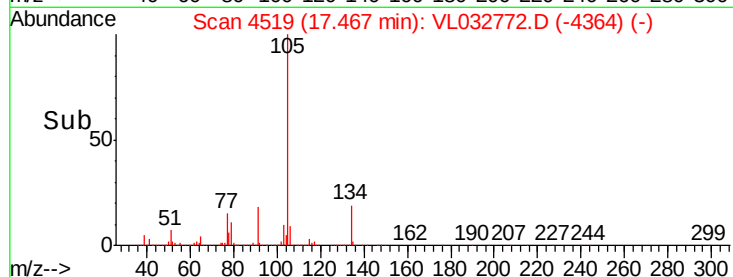
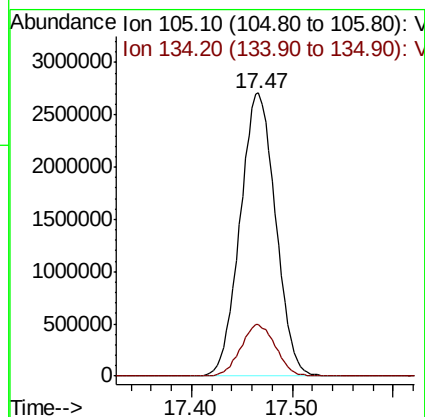
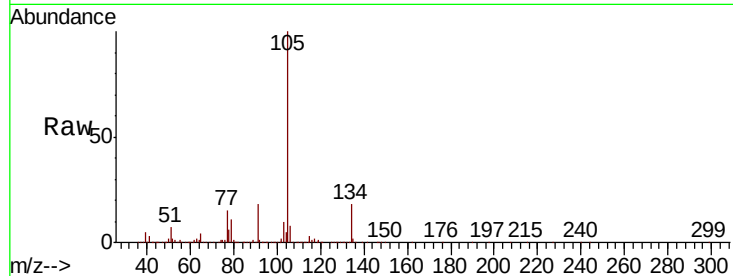
134 18.0 14.6 21.8

Manual Integrations

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11/16/2018 1:30:15 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.391 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

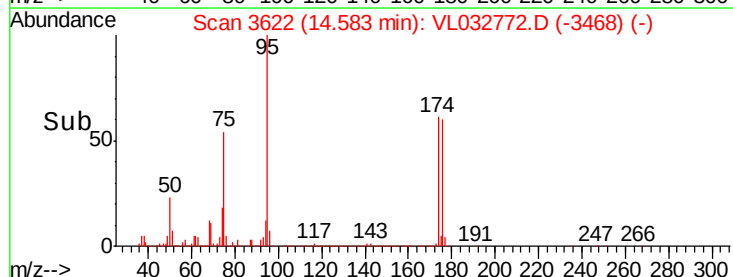
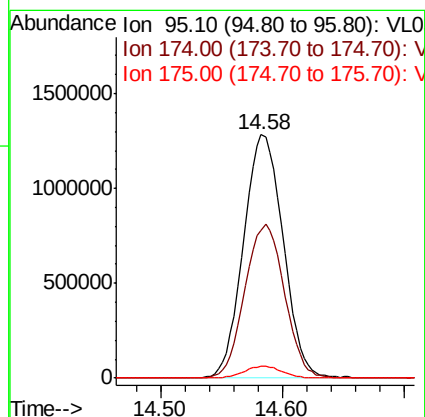
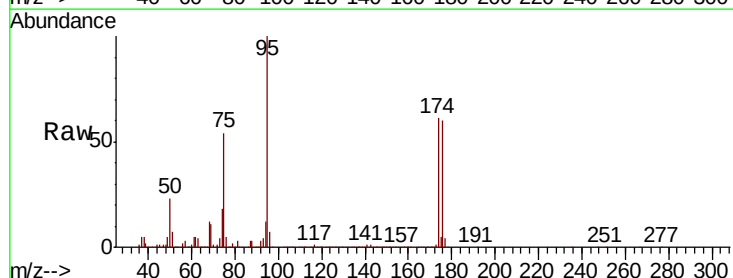
Tgt Ion: 95 Resp: 2880182

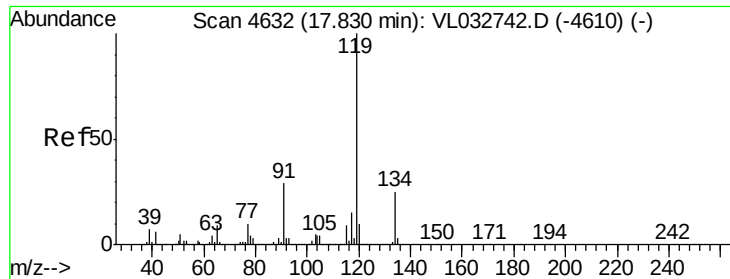
Ion Ratio Lower Upper

95 100

174 63.3 50.7 76.1

175 4.7 3.8 5.6





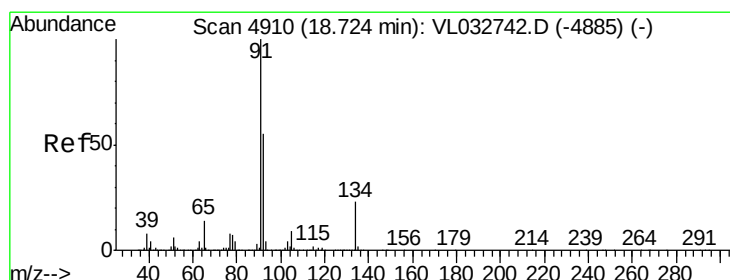
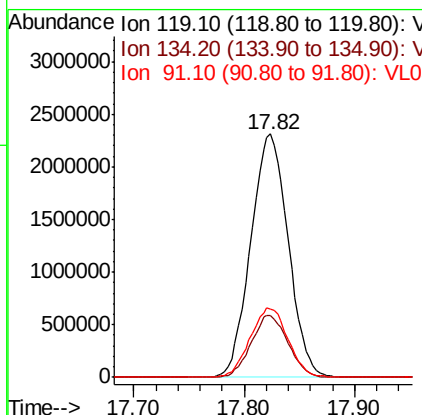
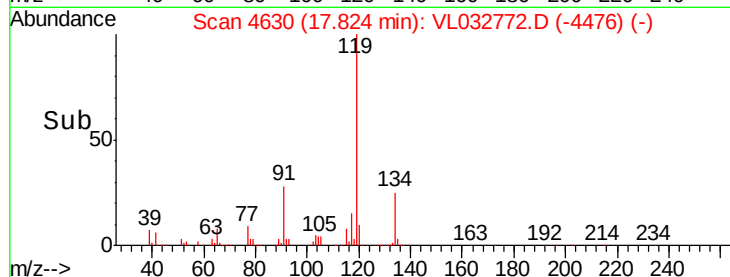
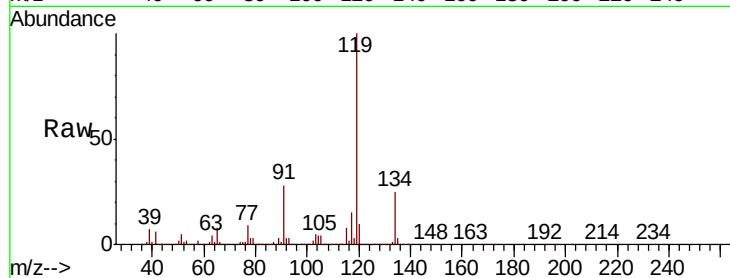
#69
 p-Isopropyltoluene
 Concen: 8.877 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.4
91	28.9	23.5	35.3

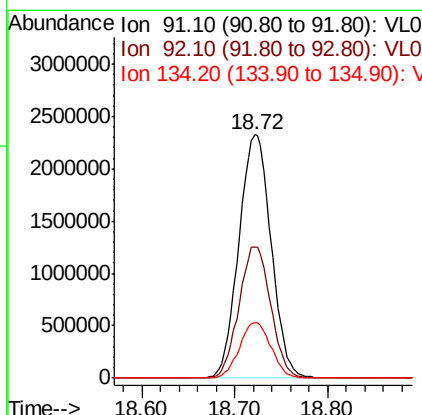
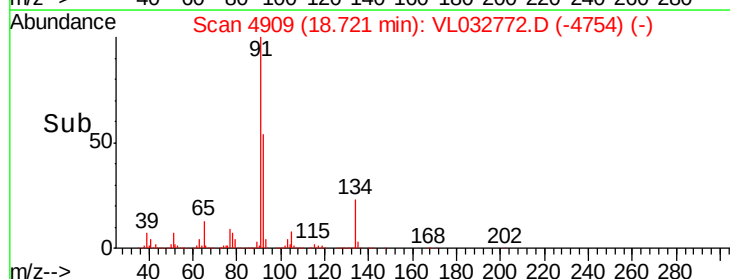
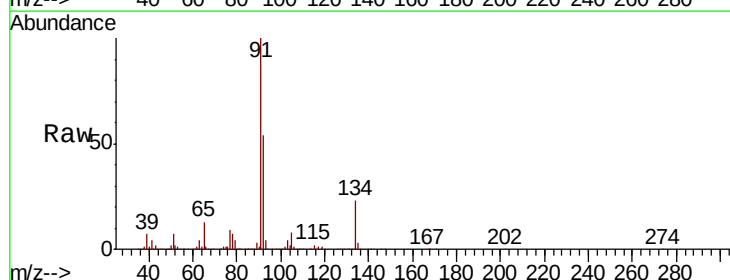
Manual Integrations
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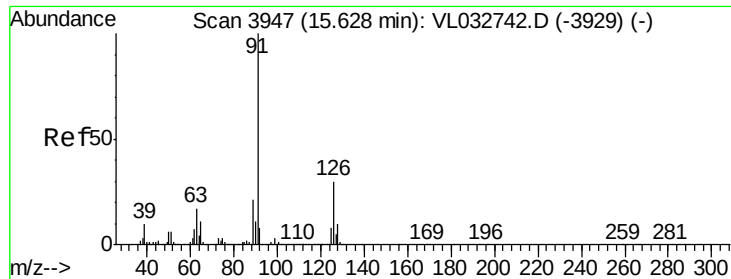
MMDadoda
 11/16/2018 1:30:15 PM



#70
 n-Butylbenzene
 Concen: 8.997 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.9	64.3
134	22.3	17.8	26.8





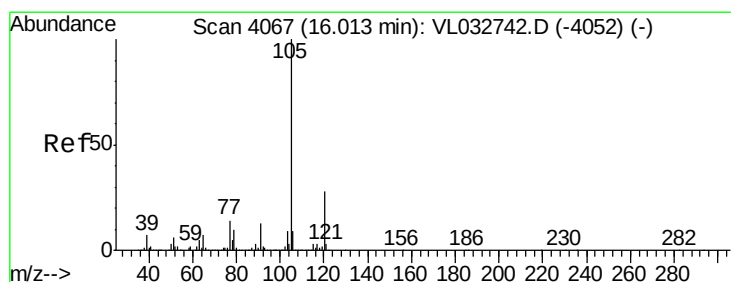
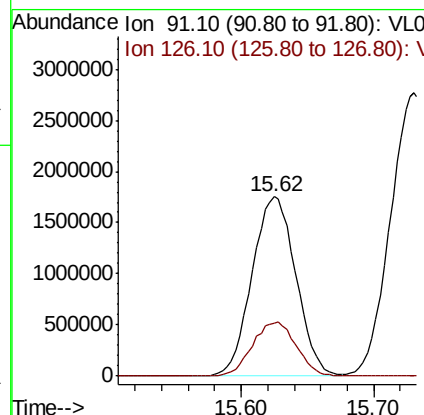
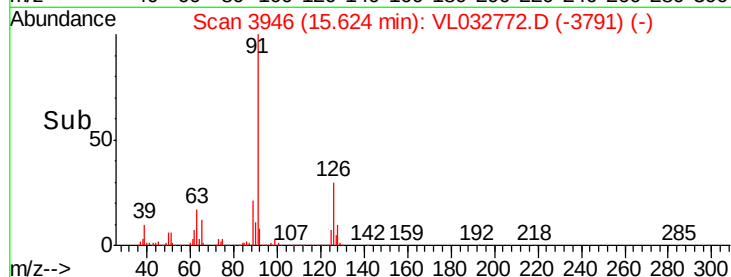
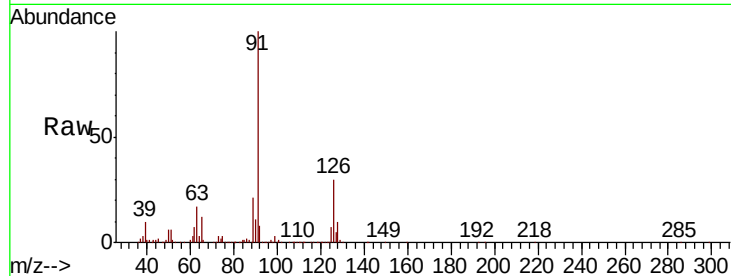
#71
 2-Chlorotoluene
 Concen: 9.053 ppbv
 RT: 15.62 min Scan# 3946
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion: 91 Resp: 4030990
 Ion Ratio Lower Upper
 91 100
 126 30.3 12.1 48.5

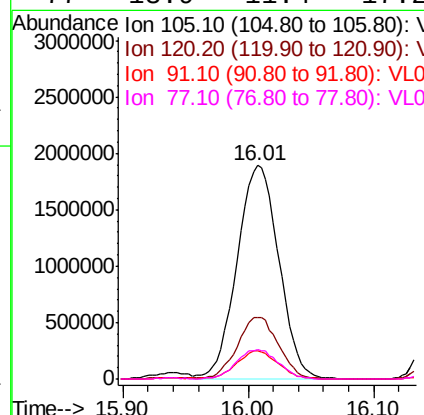
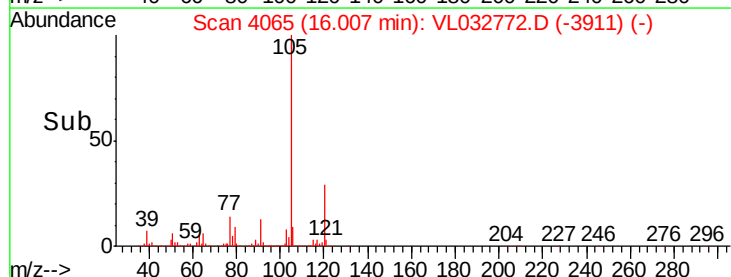
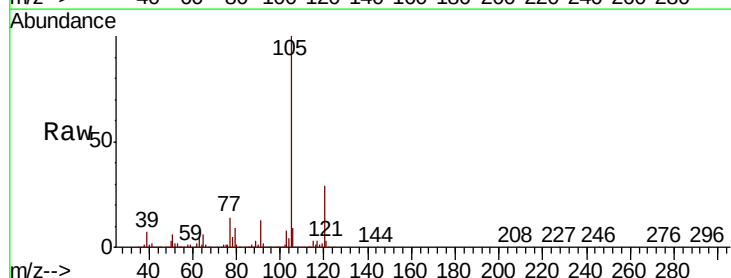
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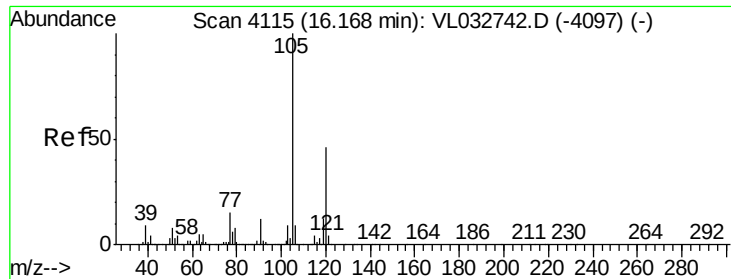
MMDadoda
 11/16/2018 1:30:15 PM



#72
 4-Ethyltoluene
 Concen: 9.024 ppbv
 RT: 16.01 min Scan# 4065
 Delta R.T. -0.01 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion: 105 Resp: 4369482
 Ion Ratio Lower Upper
 105 100
 120 28.5 22.9 34.3
 91 13.1 10.6 15.8
 77 13.9 11.4 17.2





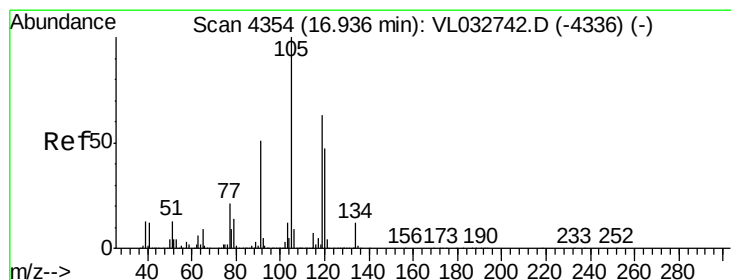
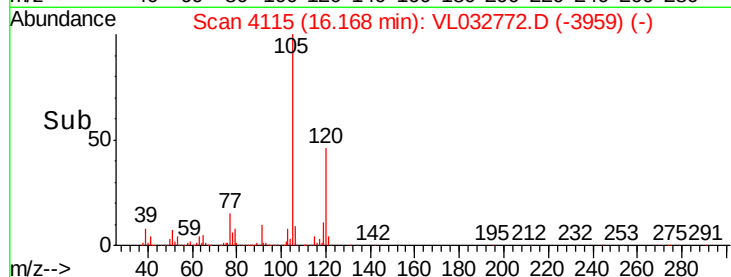
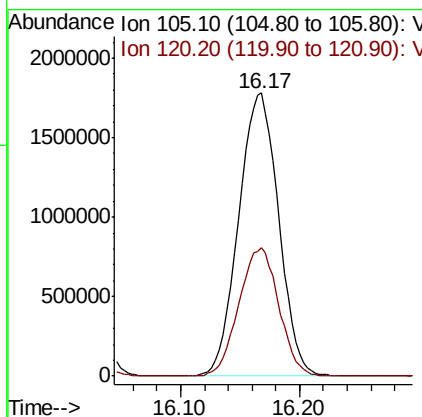
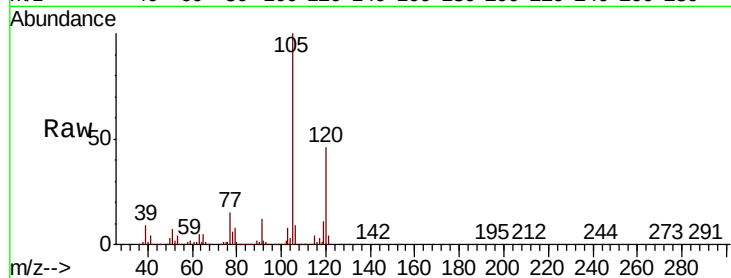
#73
 1,3,5-Trimethylbenzene
 Concen: 8.724 ppbv
 RT: 16.17 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion:105 Resp: 4129869
 Ion Ratio Lower Upper
 105 100
 120 45.5 36.6 55.0

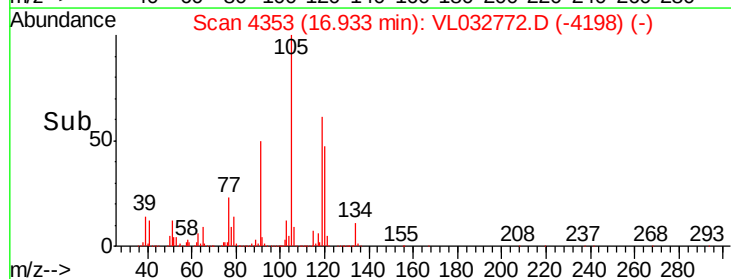
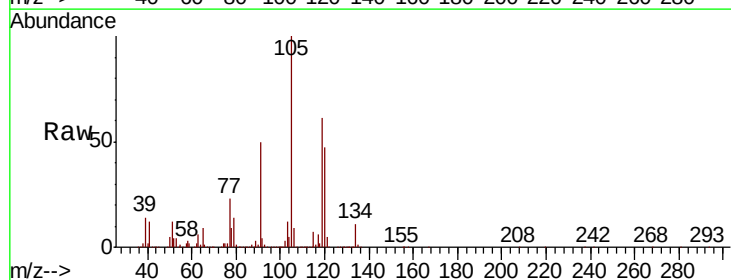
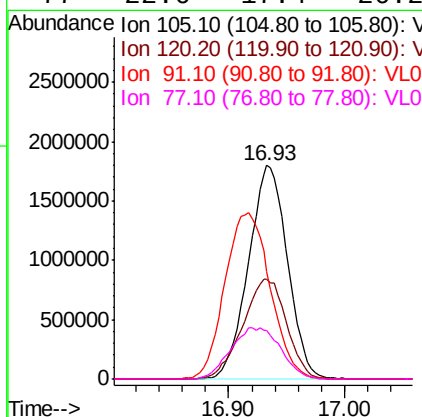
Manual Integrations
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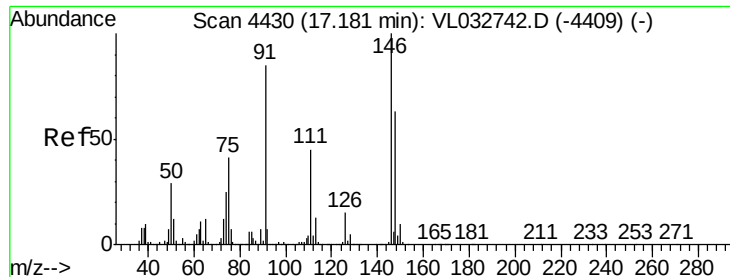
MMDadoda
 11/16/2018 1:30:15 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.287 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion:105 Resp: 4197893
 Ion Ratio Lower Upper
 105 100
 120 46.9 37.6 56.4
 91 50.1 42.5 63.7
 77 22.6 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 8.091 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.01 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS04

Tot Ion:146 Resp: 2350978

Ion Ratio Lower Upper

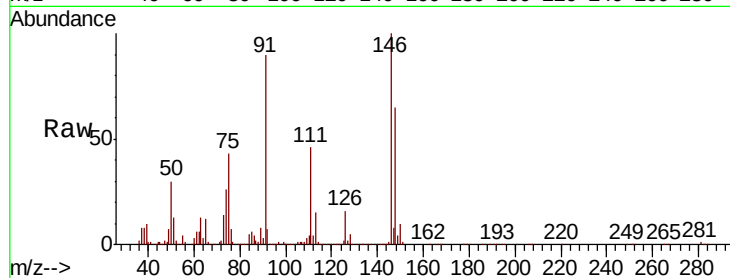
146 100

111 46.9 23.5 70.6

148 64.7 31.8 95.3

Manual Integrations
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MMDadoda
11/16/2018 1:30:15 PM

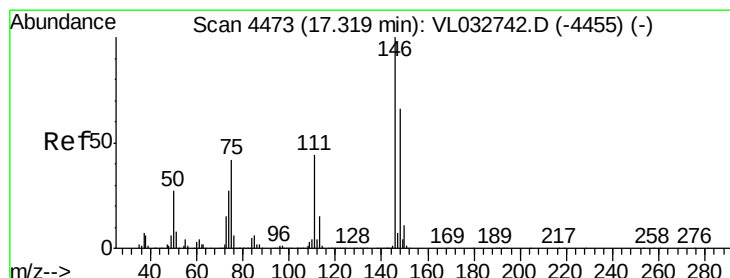
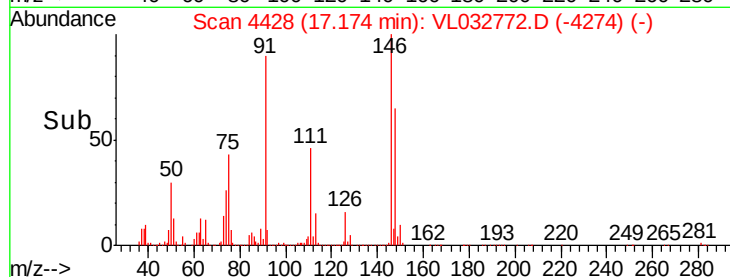
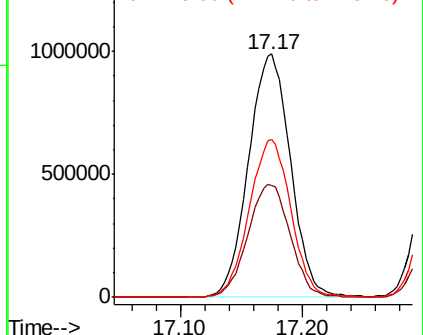


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.594 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. -0.01 min

Lab File: VL032772.D

Acq: 14 Nov 2018 23:40

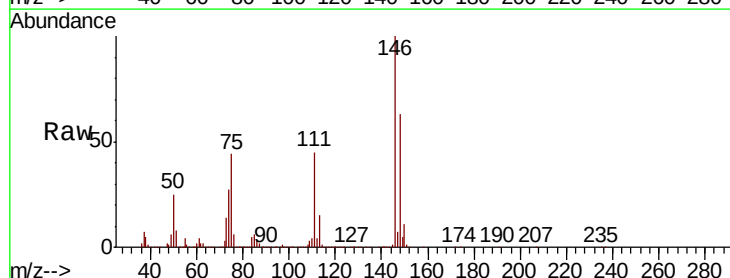
Tgt Ion:146 Resp: 2332641

Ion Ratio Lower Upper

146 100

111 46.2 22.5 67.5

148 64.9 32.5 97.5

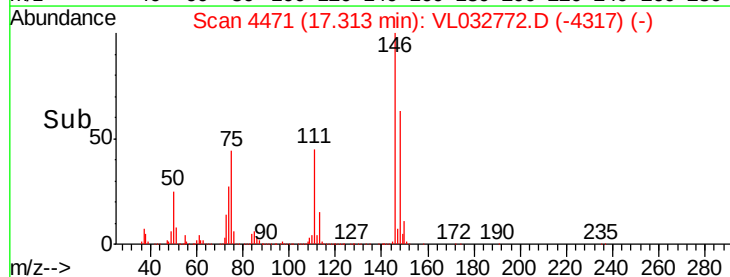
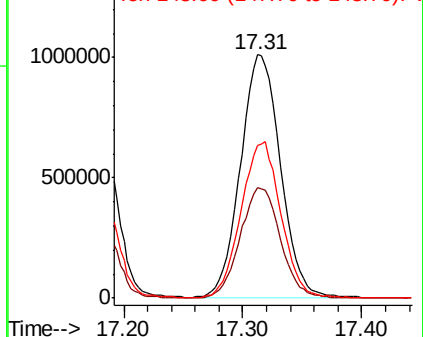


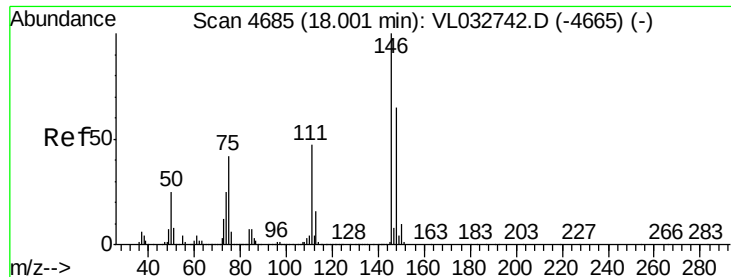
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





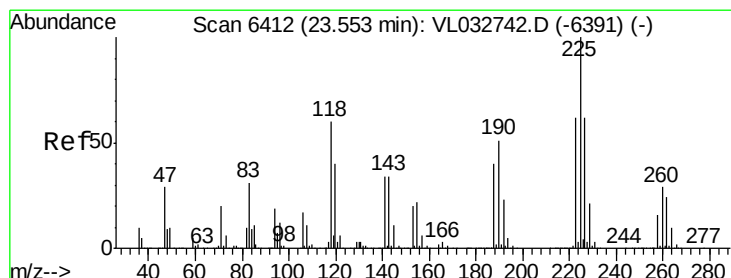
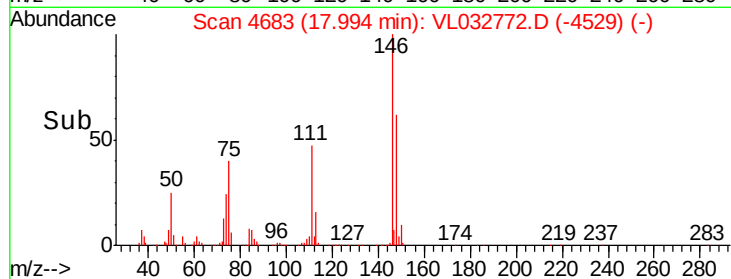
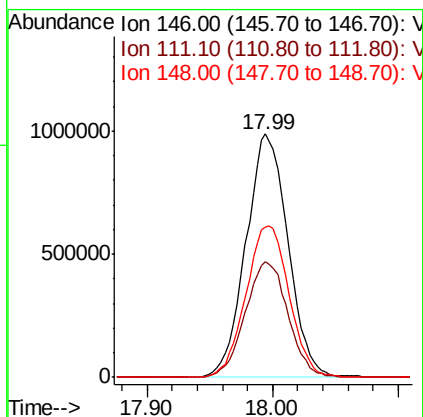
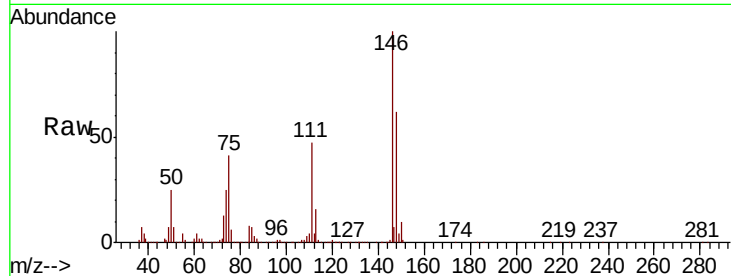
#77
 1,2-Dichlorobenzene
 Concen: 8.557 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.01 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampled :
 VL1114ABS04

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.3	24.4	73.2
148	64.3	32.2	96.6

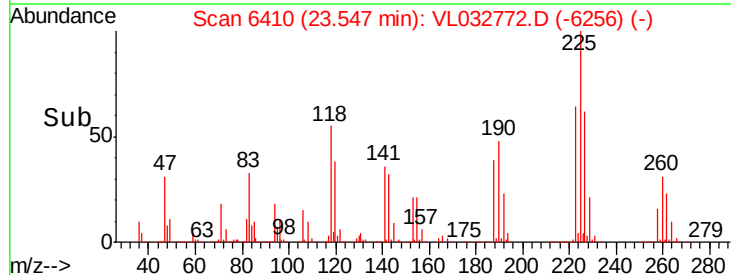
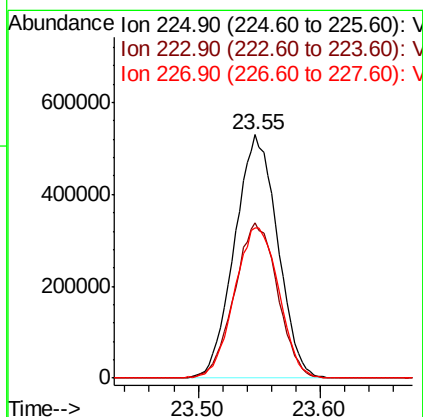
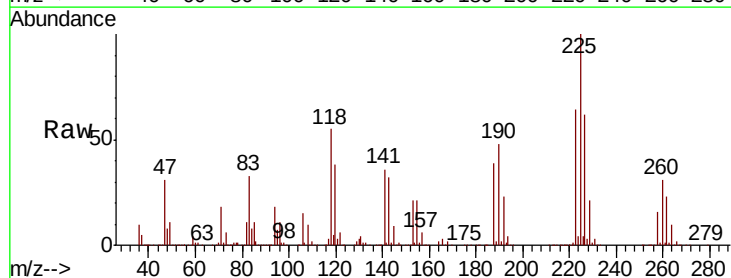
Manual Integrations
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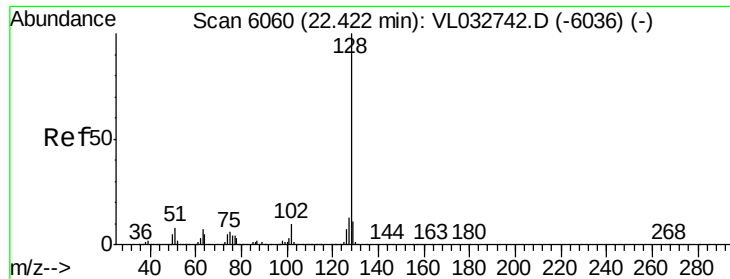
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.895 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.3	75.5
227	64.0	50.2	75.4





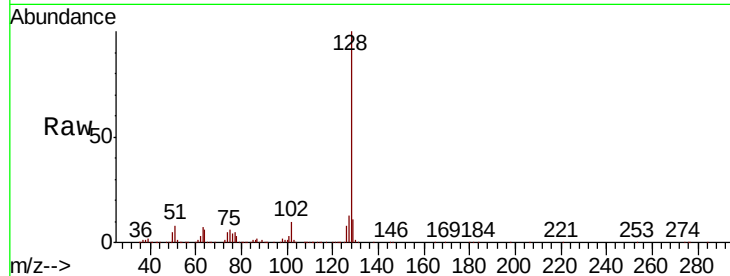
#79
Naphthalene
Concen: 12.495 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS04

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	11.2	8.9	13.3

Manual Integrations
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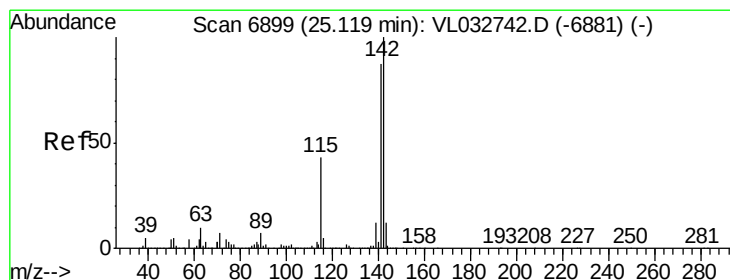
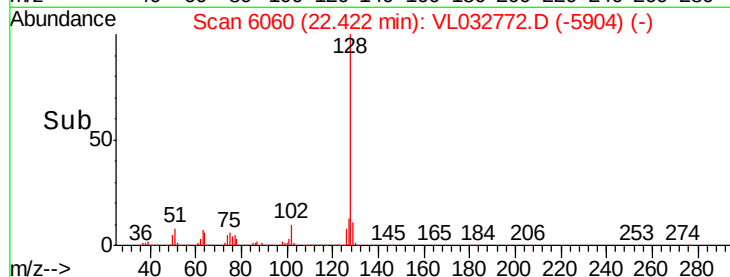
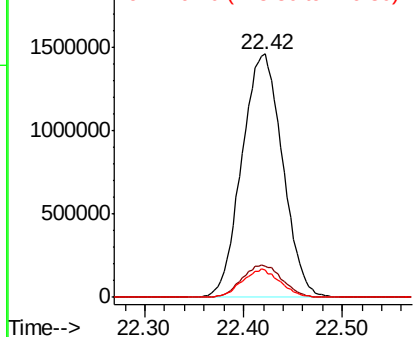


Abundance

Ion 128.10 (127.80 to 128.80): V

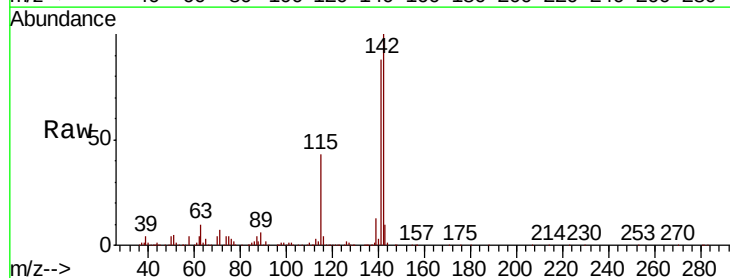
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80
Naphthalene, 2-methyl-
Concen: 12.429 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL032772.D
Acq: 14 Nov 2018 23:40

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.3	68.7	103.1
115	44.2	35.5	53.3

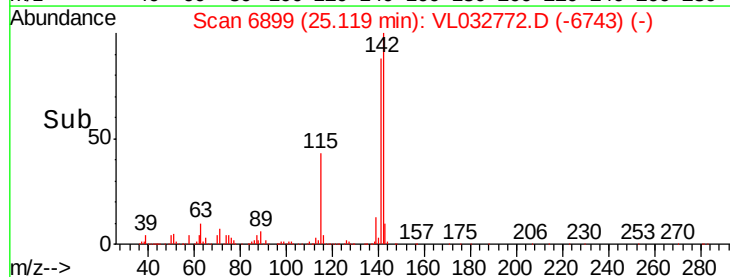
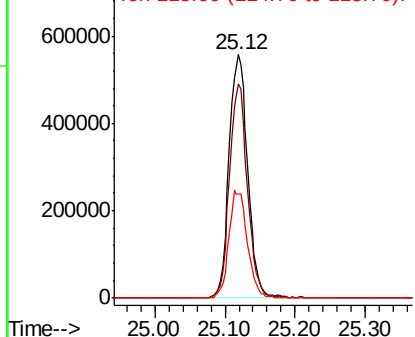


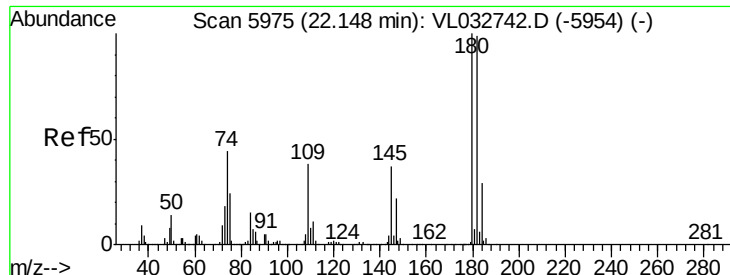
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.830 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL032772.D
 Acq: 14 Nov 2018 23:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.3	115.9
184	30.5	24.2	36.4

Manual Integrations
 APPROVED

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